

DP50710-00 / 01
DP50740-00 / 02 / 03
DP50741-01

with panel # MD-50H13NBE

Suggestions

The Pwr Bd. is seldom bad.

If the Pwr LED is turning OFF in 4-5 sec., these are the most common failures on the SC & SS Bds., If any are shorted, please replace the board.

SC

D451
D481
Q661
Q401
Q402
Q421
Q422

SS

Q001
Q002
Q021
Q022

note: Unplugging any power cable from the SMPS to isolate the defective PCB will not work on this Panasonic panel.
Unplugging any of the power cables will cause the SMPS to shut down.

a) Unplug LVDS Cable (40 pin connector) from Main to Digital "D" Bd. (D5 connector) behind Main:

This will eliminate the Main Bd., and see if the SMPS will power ON automatically, and remain ON.

Plug the AC Cord to power (do not push the Pwr Key on the TV) and see if the SMPS will power ON.

If the SMPS powers ON and remains ON, then the Main Bd. should be tried. If the SMPS continues to shutdown then resistance checks (#1-#12) below should be done.

note: This panel has a self test mode, and unplugging the LVDS starts the self test. No raster is displayed, because a special jig is needed to activate the raster & video.

RESISTANCE CHECKS TO POSSIBLY ISOLATE DEFECTIVE PCB

Location of connectors is
on page #2

- 1) Is pin #1 or #2 (55-60V) of (P35 connector) shorted to chassis Gnd?
yes, shorted = PDP Panel N/G
not shorted = go to step #2
- 2) Is Pin #5 (5V) of (P25 connector) shorted to chassis Gnd?
yes, shorted = go to step #3
not shorted = go to step #4
- 3) Disconnect (p25 connector)
Is Pin #5 (5V) of (P25 connector) shorted to chassis Gnd?
yes, shorted = SMPS N/G
not shorted = go to step #4
- 4) Disconnect (SC20 connector)
Is pin #30 (5V) of SC20 connector shorted to chassis Gnd?
yes, shorted = SC Bd N/G
not shorted = go to step #5
- 5) Disconnect (SS23 connector)
Is pin #1 (5V) of SS23 connector shorted to chassis Gnd?
yes, shorted = SS Bd N/G
not shorted = go to step #6

Please re-install all PCB mounting screws whenever a board is changed, and before re-testing the TV. The ground screws are needed to prevent damage to the PCB.

After working on TV, if it has several horizontal lines or bars, please try reseating the flat ribbons going to the SU & SD Bds.

Reconnect P25, SC20, & SS23 Connectors

- 6) Disconnect (SC2 connector)
Is TPVSUS (SC2, pin #1, 193V) on SC Bd. Shorted to chassis Gnd?
yes, shorted = SC Bd. N/G
not shorted = go to step #7
- 7) Reconnect SC2 and disconnect (SS11 connector)
Is TPVSUS (SS11, pin #1, 193V) on SS Bd. Shorted to chassis Gnd?
yes, shorted = SS Bd. N/G
not shorted = Power ON TV, and check TPVSUS on SC Bd. for 193V before shutdown
If no output, = SMPS N/G
If 193V OK is before shutdown, SC Bd. may be defective (can not be sure)

Reconnect SS11 Connector

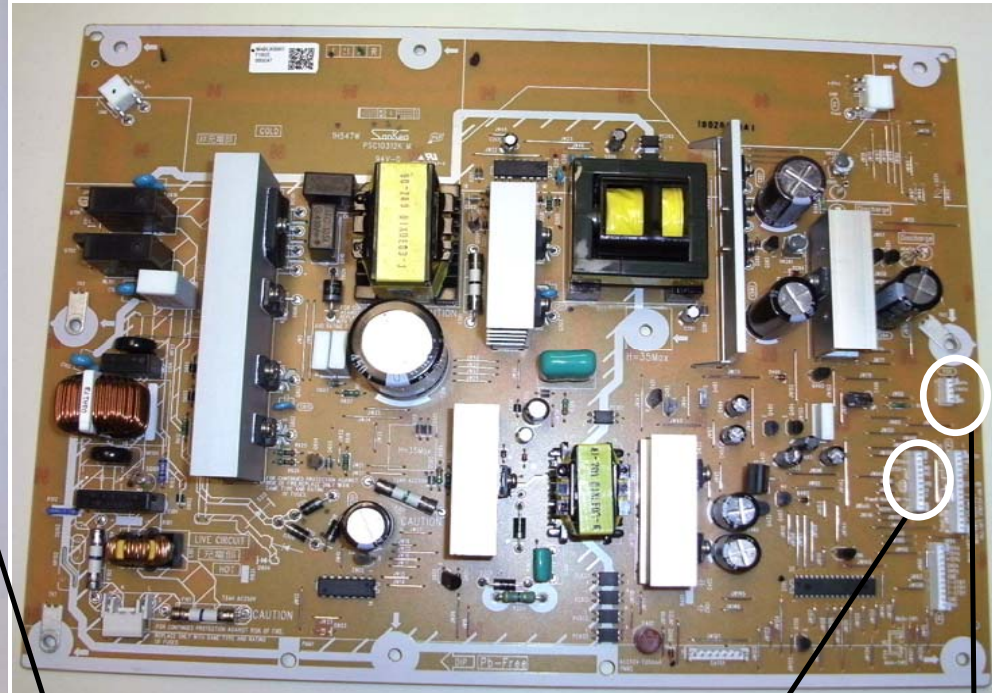
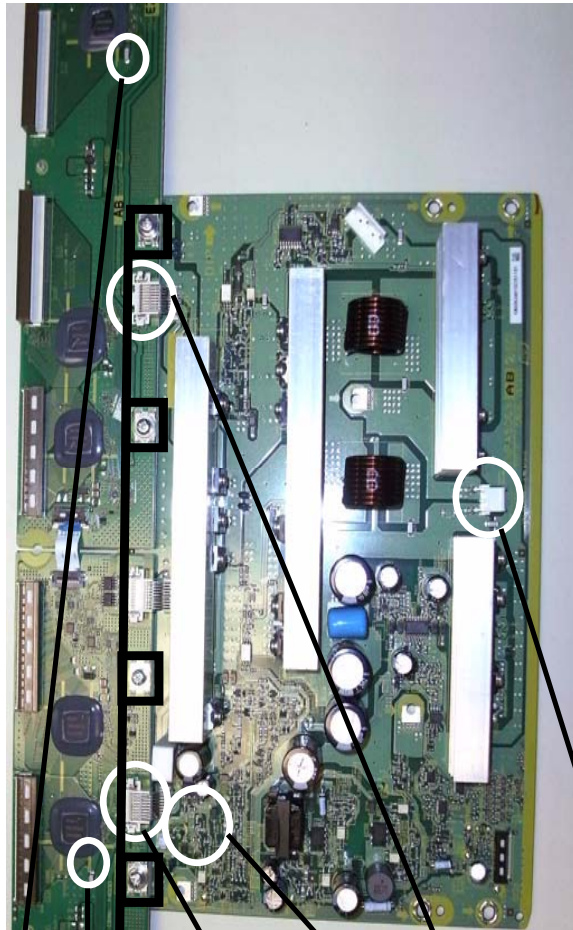
- 8) Is TPSC1 (143V) shorted to base pattern of SU/SD Bd?
Base Pattern Test Points are on attached page (please do not use chassis Gnd)
yes, shorted = go to step #9
not shorted = go to step #11, not necessary to check #9 - #10
- 9) Disconnect SU41 connector
Is TPSC1 shorted to base pattern of SU/SD Bd?
not shorted = SU Bd. may be defective
yes, shorted = go to step #10
- 10) Reconnect SU41 and disconnect SD42 connector
Is TPSC1 shorted to base pattern of SU/SD Bd?
not shorted = SD Bd. may be defective
yes, shorted = SC Bd. may be defective
- 11) Measure resistance across C956 (143V across cap.) on SD Bd.. If resistance is only a few ohms, the SD BD. is defective.
- 12) Measure resistance across C907 (143V across cap.) on SU Bd.. If resistance is only a few ohms, the SU BD. is defective.

If you can not find anything wrong and you suspect the panel is shorted, you can unplug the eight flat ribbons from the panel to the buffer bds. (SU & SD) and see if the SMPS will remain ON. You can not unplug the flat ribbons to the Sustain Drive (SS) Bd. (if you unplug the flat ribbon/s to the SS Bd. the panel will shut down). If all PCBs and other connections are OK, the SMPS will power ON and have all voltages with these ribbons unplugged. If the SMPS should remain ON with the ribbons unplugged, you should re-connect them and then verify that the SMPS still shuts down when they are connected.
note: The SMPS will remain ON, if one or more of the flat ribbons are unplugged from the panel to the buffer bds. (SU & SD), if the PCBs and other connections are OK.

SC Bd.

SMPS

SS Bd.



C907
C956
TPSC1
SC41
SC42

SC2
TPVSUS

P25

P35

SS23

SS11
TPVSUS

BASE PATTERN TEST POINTS:

4 screws total: 2 screws through SU & SC Bds.,
and 2 screws through SD & SC Bds.
(these screws are not chassis ground)

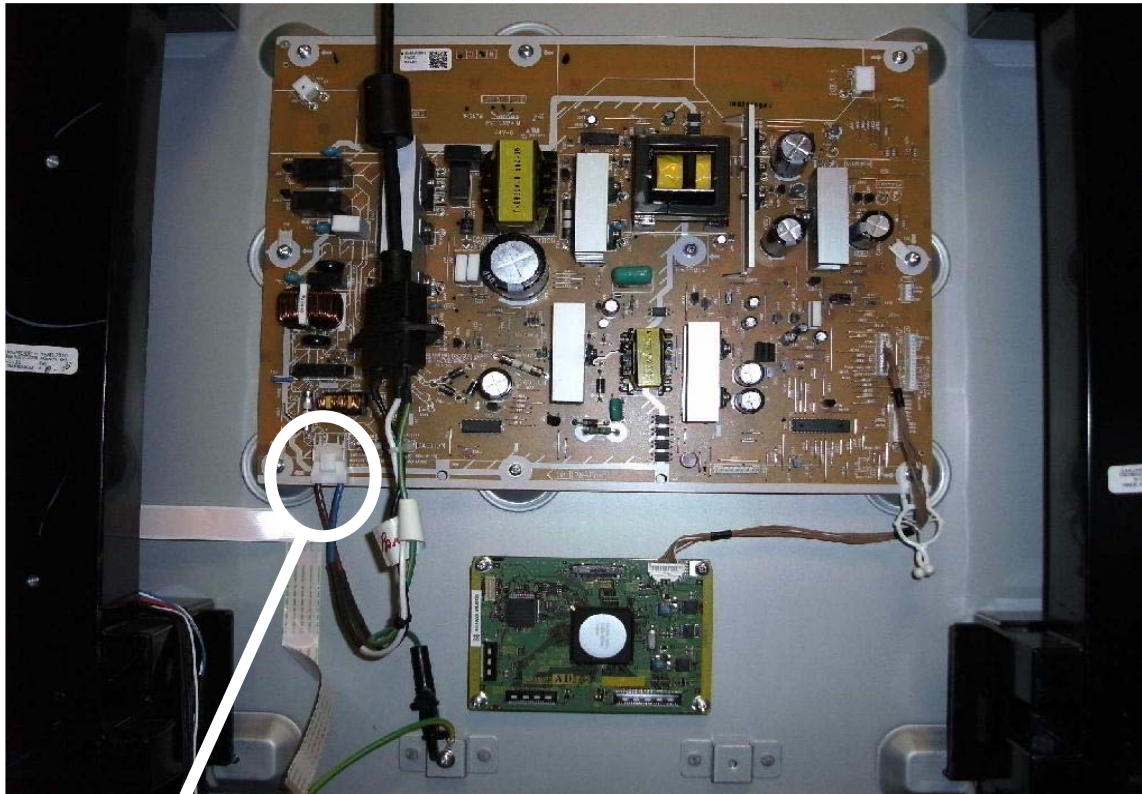
← VERY IMPORTANT

p#2
DP50710-00 / 01
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11/04/10

IF YOU BELIEVE THE SMPS IS DEFECTIVE

The SMPS can be checked, but all cables & flat ribbons from the SMPS & Digital Processor PCB must be unplugged. The only exception is the cable from D25 (D Bd.) to P25 (SMPS) must be connected. With everything disconnected except this one cable, and when power is applied to the SMPS, the SMPS should turn ON.

If the SMPS is working OK, please reconnect all connectors to the SMPS & Digital Processor. If one of the other PCBs is defective, it is possible to damage the SMPS, w/o the flat ribbons connected to the Digital Processor.

SMPS & Digital Processor

Apply power to the SMPS.



No cables attached to SMPS or Digital Bd., except cable from D25 to P25.

These voltages should be present:

Connector:

P2	p1	191.2
	p2	

P7	p1	5.0
	p2	

P25	p1	15.5
	p2	15.5

P6	p1	15.5
	p2	15.5
	p3	
	p4	
	p5	
	p6	
	p7	
	p8	
	p9	
	p10	
	p11	

P7	p1	5.0
	p2	
	p3	
	p4	
	p5	
	p6	
	p7	
	p8	
	p9	
	p10	
	p11	

P25	p1	15.5
	p2	15.5
	p3	
	p4	
	p5	5.0
	p6	
	p7	
	p8	
	p9	3.0
	p10	

P11	p1	191.2
	p2	
	p3	15.5

P35	p1	55.5
	p2	55.5
	p3	
	p4	



FILE NO.

SERVICE MANUAL

Remote Control Digital Color Television

DP50710 (U.S.A.)
(CANADA)
ORIGINAL VERSION



Chassis No. P50710-00

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You **must** refer to "Notices" to the Original Service Manual prior to servicing the unit.

Servicing should be performed by only trained and qualified service personnel.

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Specifications

POWER RATING	120VAC 289 W (AVG.)
ANTENNA INPUT IMPEDANCE	75Ω UHF/VHF/CATV DIGITAL
RECEIVING CHANNEL	2 - 13 (VHF), 14 - 69 (UHF), 01, 14-94, 95-135 (CATV) 1-135 (DIGITAL)
REMOTE READY	48 KEY REMOTE CONTROL
SOUND OUTPUT	10.0 W/CH
INTERMEDIATE FREQUENCY	
PICTURE IF CARRIER	45.75MHz
SOUND IF CARRIER	41.25MHz
COLOR SUB CARRIER	42.17MHz
CABINET DIMENSIONS	
WIDTH	11245mm
HEIGHT	842mm
DEPTH INCLUDING BASE	360mm

SAFETY INSTRUCTIONS

SAFETY PRECAUTIONS

WARNING: The chassis of this receiver has a floating ground with the potential of one half the AC line voltage in respect to earth ground. Service should not be attempted by anyone not familiar with the precautions necessary when working on this type of equipment.

The following precautions must be observed:

1. An isolation transformer must be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Comply with all caution and safety-related notes provided inside the cabinet, on the chassis, and on the back.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.
4. Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any television to the customer, the service technician must perform the following safety checks to be sure that the unit is completely safe to operate without danger of electrical shock.

ANTENNA COLD CHECK

Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

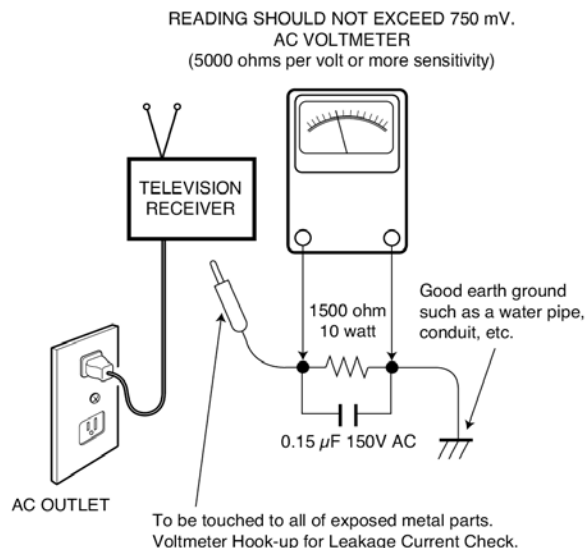
LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 μ F 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.

PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a ⚠ in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.



SERVICING ELECTROSTATICALLY SENSITIVE DEVICES

Semiconductors (solid-state devices) that can be damaged by static electricity are referred to as Electrostatically Sensitive (ES) devices. Examples of typical ES devices are: Integrated Circuits (IC), Field-Effect Transistors (FET), and "chip" components. The following techniques should be observed strictly, to reduce the occurrence of semiconductor damage due to electrostatic discharge.

1. Immediately prior to handling any semiconductor component or an assembly containing a semiconductor device or devices, discharge the electrostatic buildup on your body by touching a known earth ground. You may also obtain and wear a commercially available discharging wrist strap device.

CAUTION: Be sure to remove the wrist strap before applying power to any unit being serviced.

2. After removing an ES equipped assembly, place it on a conductive surface, such as, aluminum foil, to prevent buildup or exposure to static electricity.
3. Use only grounded-tip soldering irons to solder or unsolder ES devices.
4. Use only anti-static solder removal devices. Some suction-type devices can generate static electricity adequate to damage ES devices.
5. A replacement ES device will come packaged in protective material (conductive foam, aluminum foil, or some comparable conductive material). Do Not remove an ES device from its protective packaging unless you are prepared to install it immediately.
6. Precisely prior to removing an ES device from its protective packaging, touch the protective packaging to the chassis or assembly in which the device will be installed.

CAUTION: Be sure that no power is applied to the chassis or circuit assembly.

7. Incidental body movements, such as, lifting a foot from a carpeted floor or the rubbing of fabric together can generate static electricity sufficient to damage ES devices. Therefore, minimize all body movements while handling exposed (unpacked) ES devices.

SERVICE ADJUSTMENTS

GENERAL

This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

ON-SCREEN SERVICE MENU SYSTEM

1. Enter the Service Menu:

- Turn off the receiver and disconnect the AC power supply.
- While pressing the Volume (⇐) button on the television, reconnect the AC power supply. The Service Menu will now appear. The remote can now be used to make adjustments. See Figure 1 below.

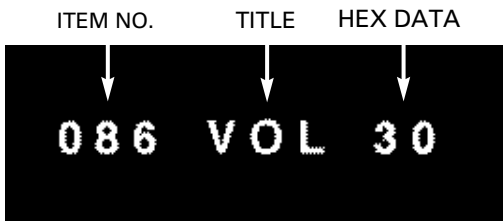


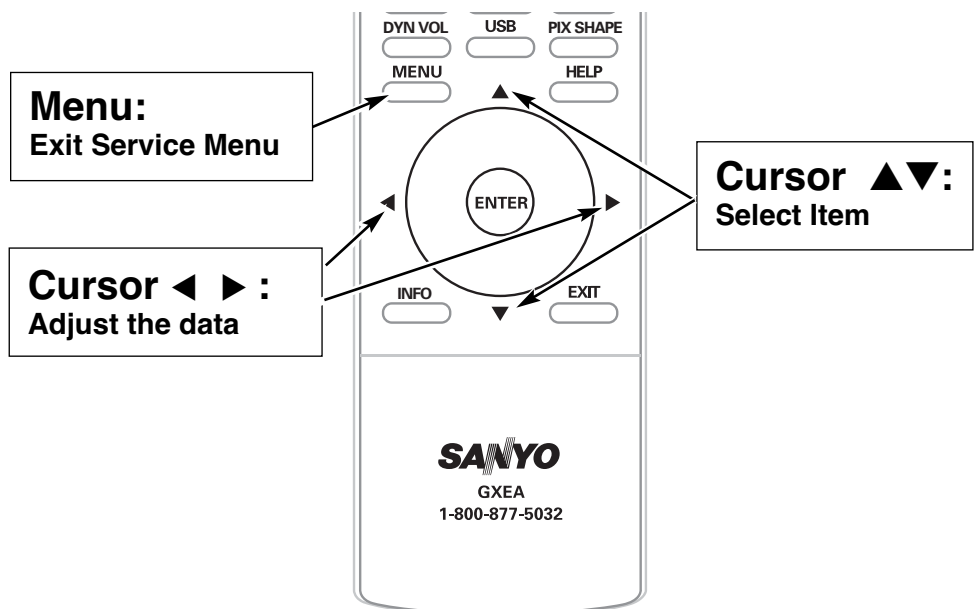
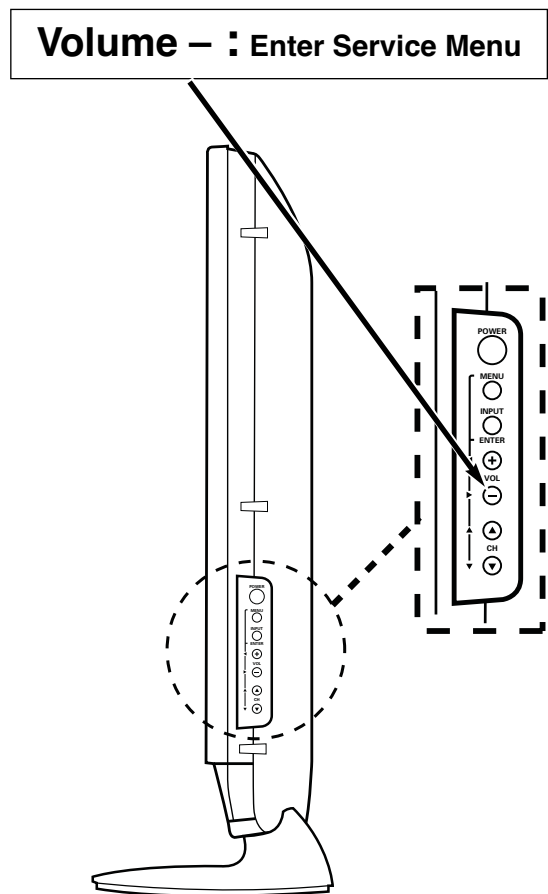
Figure 1. Service Menu Display

2. Service Adjustments:

- Press the Cursor ▲ and ▼ key to select the desired service menu item you want to adjust. See page 4 for the On-screen Service Menu.
- Use the Cursor ◀ or ▶ key to adjust the data. The ◀ or ▶ key will increase or decrease the data sequentially.

3. Exit from the Service Menu:

- Press the **MENU** key to turn off the Service Menu display.



ON-SCREEN SERVICE MENU

Table 1. ON-SCREEN SERVICE MENU

When IC801 (EEPROM) is replaced, check the bus data to confirm they are the same as below. See page 3 for On-Screen Service Menu access and adjustments.

No.	Title	Initial Data	Note
1A0	MUTE	A0h	Audio mute at Power ON
086	VOL	30h	Volume setup inspection
087	OP1	00h	Option 1 Data (HDMI)
088	OP2	19h	Option 2 Data (Display Panel)
101	1R00	00h	ROM Correction Data
102	1R01	00h	ROM Correction Data
↓	↓	↓	↓
197	2R47	00h	ROM Correction Data
198	2R48	00h	ROM Correction Data

- All data except in gray box area is fixed. Do not change for correct operating.
- Data in gray box is initial and can be set according to adjustment information.

PROGRAM CODES

The microprocessor used in this model is a multi-purpose type and is used in several different models. To ensure proper operation and the correct features for your particular model, the program codes must be correct.

Note 1. Option Data 1 (NO. 087 OP1) should be hexadecimal 00. See 087 above. If this program code is wrong the TV will not operate properly.

Note 2. Option Data 2 (NO. 088 OP2) should be hexadecimal 19. See 088 above. If this program code is wrong the TV will not operate properly.

POWER FAILURE CIRCUIT

CPU (IC800) is programmed so the set will go to standby mode when there is circuit failure as described below. (Refer to "Block Diagram Power Lines".)

This unit is equipped with a Power Failure Detector function included in the CPU which checks for an abnormal condition in the chassis power supplies.

If, while the power is on, a failure is caused by any of the following that results in a low voltage supply, the CPU will turn the unit off in 1.5 seconds to prevent further damage:

- Failure within the power supply circuits.
- A short circuit in the load side from the supply.

Power Failure: Detected voltage failure for circuit. (Connected to IC800 pin 48 and pin 23.)

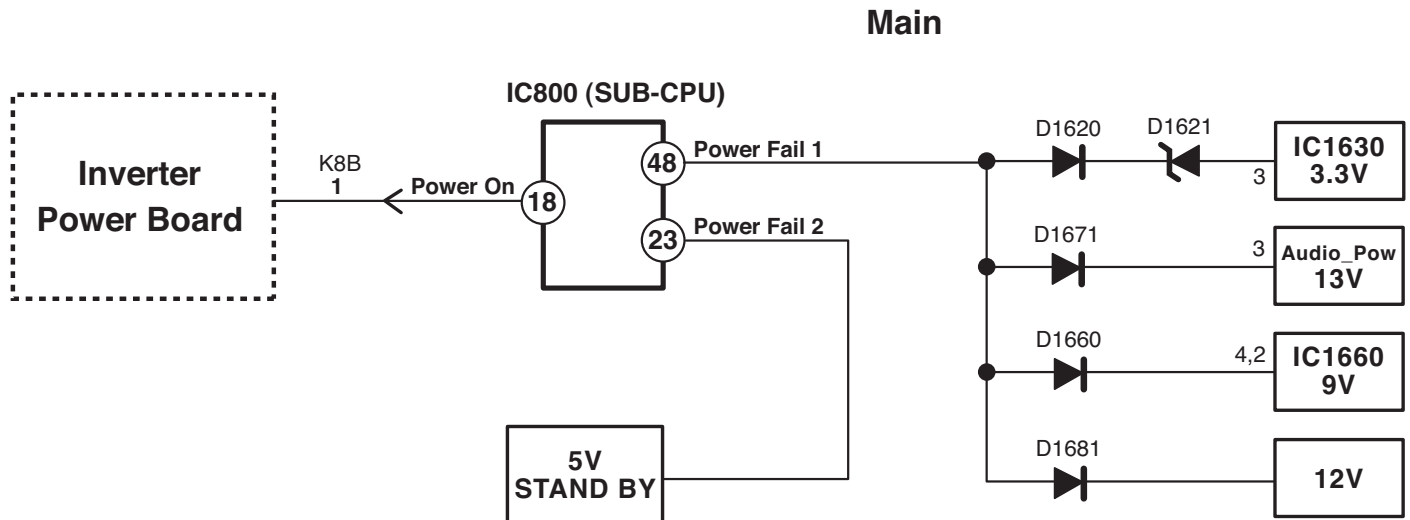
(Normal: High; Failure: Low)

If, while the power is off, the power is switched on and any of these failures remains uncorrected, the CPU will shut off the power within three seconds.

Check the following if the unit is turned off by the power failure detector.

1. Disconnect the AC power cord (120V AC line) for a short time.
2. Connect a DC Voltmeter to the circuits shown below.
3. Press the Power key and check for the proper voltage supplies.
4. If any of these voltages is low, the power failure detector should turn the unit off within three seconds.
5. Check all circuits shown below.

Note: If power failure is detected 3 times in 15 minutes, the set will enter the standby mode and cannot be switched On. To reset the operating programs of the CPU it is necessary to disconnect the AC cord for a short time.



MECHANICAL DISASSEMBLY

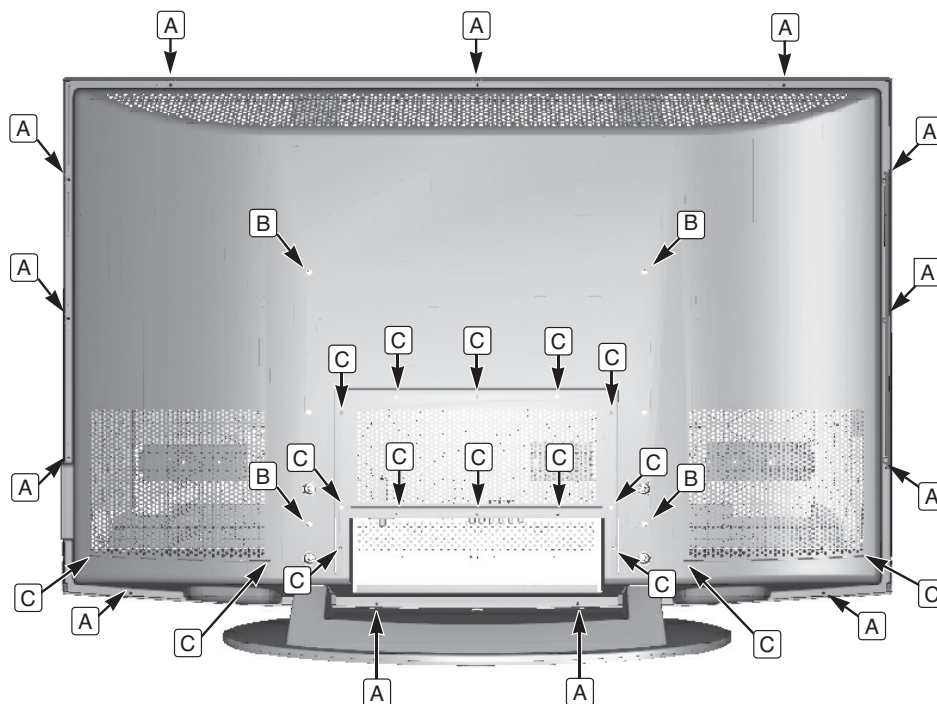
CAUTION:

This PDP TV uses several different kinds of screws. Using the correct screw is necessary to prevent damage. Lead wires must be redressed to their previous locations after servicing. The Earth sheet and gasket are provided to prevent interference to other radio and television receivers. The Earth sheet and gasket should be returned to its previous position after servicing.

BACK CABINET REMOVAL

Remove 33 screws to take the back cabinet off.

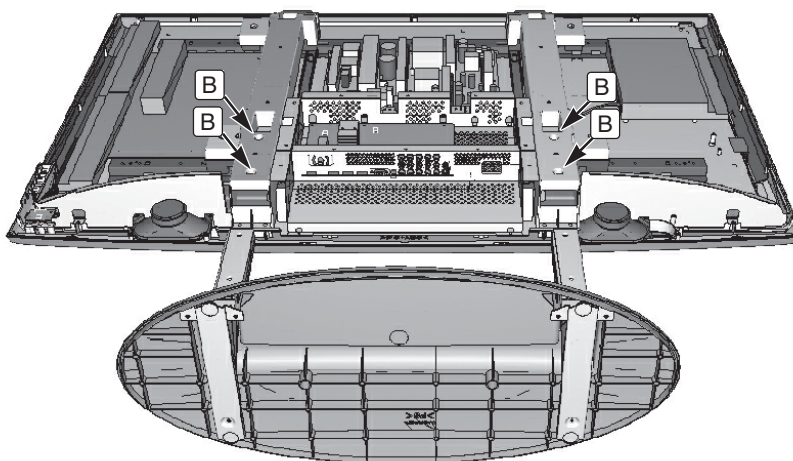
(A:4x10, 13 pcs.; B:6x16, 4 pcs.; C:4x8, 16 pcs.)



STAND REMOVAL

Position TV face down on a padded or cushioned surface to protect the screen and finish.

Remove 2 screws (B:6X12) and remove the stand from the TV.



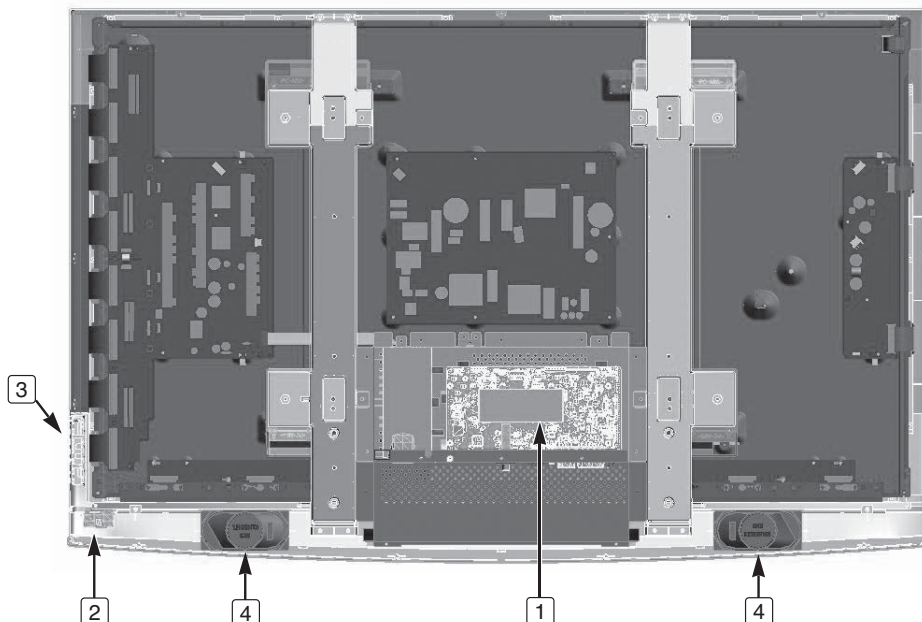
MECHANICAL DISASSEMBLY (Continued)



ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

BOARD LOCATIONS



1: Main Board

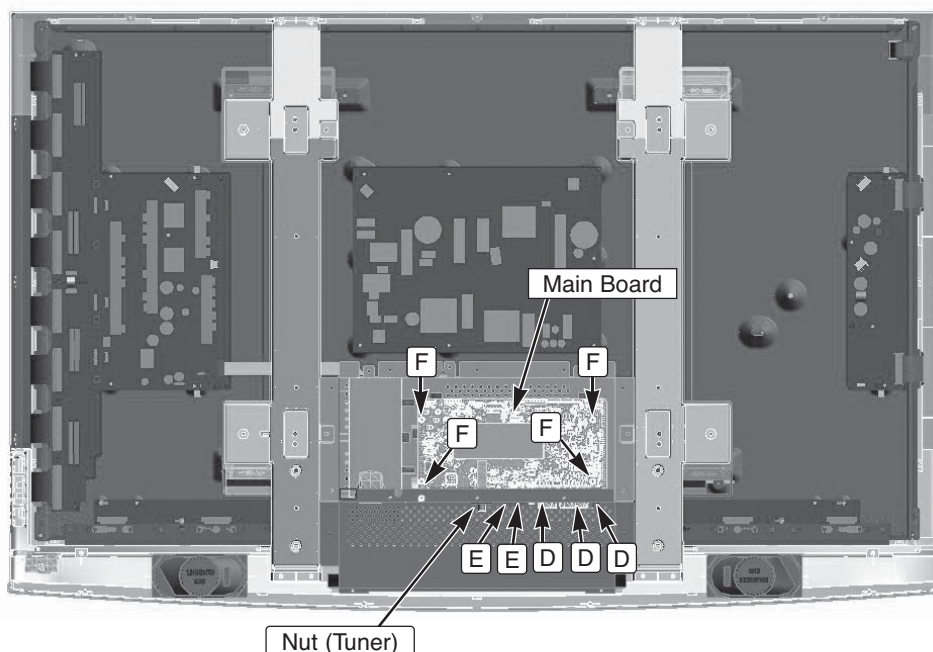
3: KEY SW Board

2: RC LED Board

4: Speakers

MAIN BOARD REMOVAL

Remove 10 screws (D: 3X13, 3pcs; E:PC terminal nuts, 2pcs; F: 3x6, 4 pcs.) and 1 Nut (Tuner) to take the Main Board off.



MECHANICAL DISASSEMBLY (Continued)

1. KEY SW BOARD REMOVAL

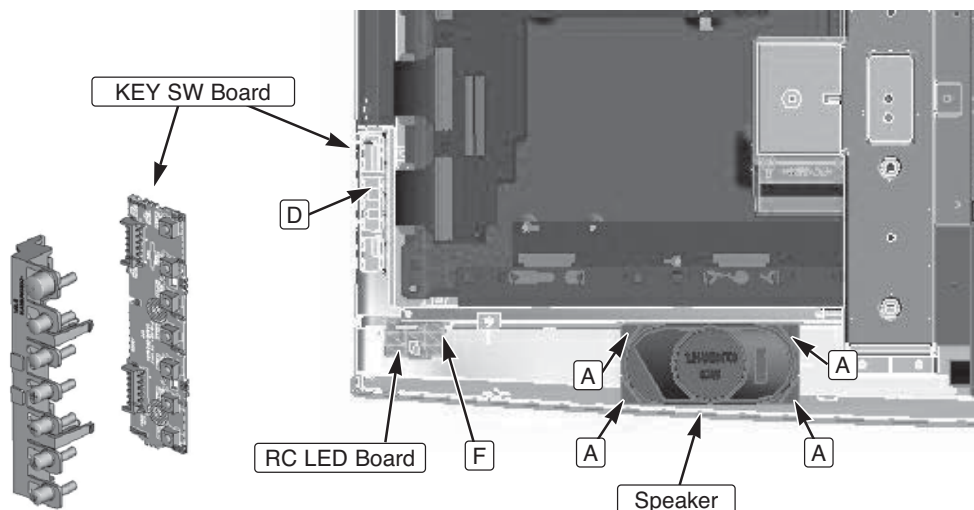
Remove 1 screw (D:3x12) to take the key sw board off.

2. RC LED BOARD REMOVAL

Remove 1 screw (F: 3x6) to take the RC Led board off.

3. SPEAKER REMOVAL

Remove 4 screws (A:4x10) to take off both speakers.



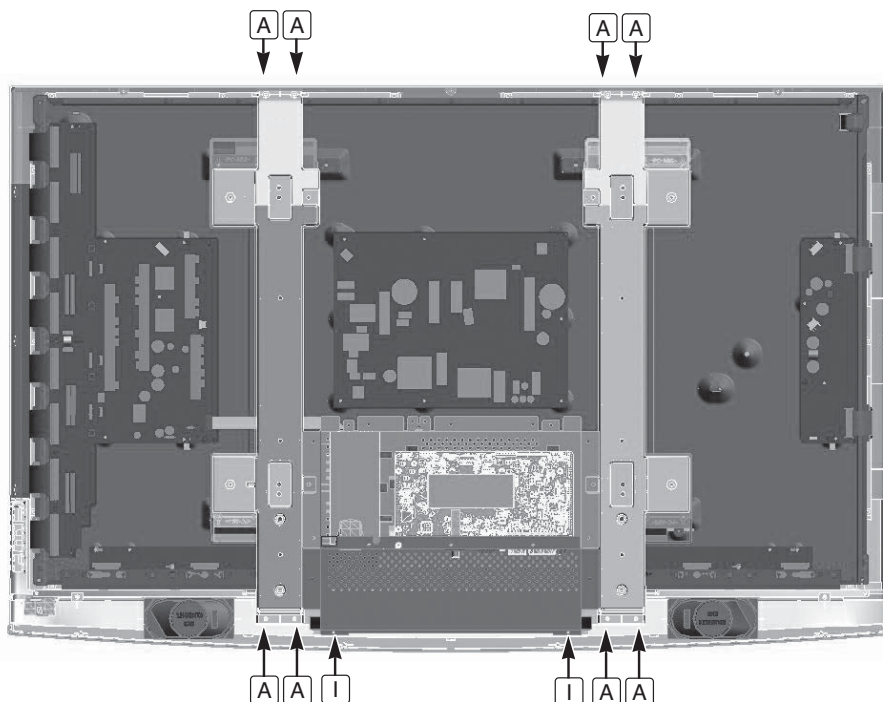
FILTER GLASS REMOVAL

1. Take the connectors from below lead wire off.

Control Board ~ Main Board: **K8CTR**

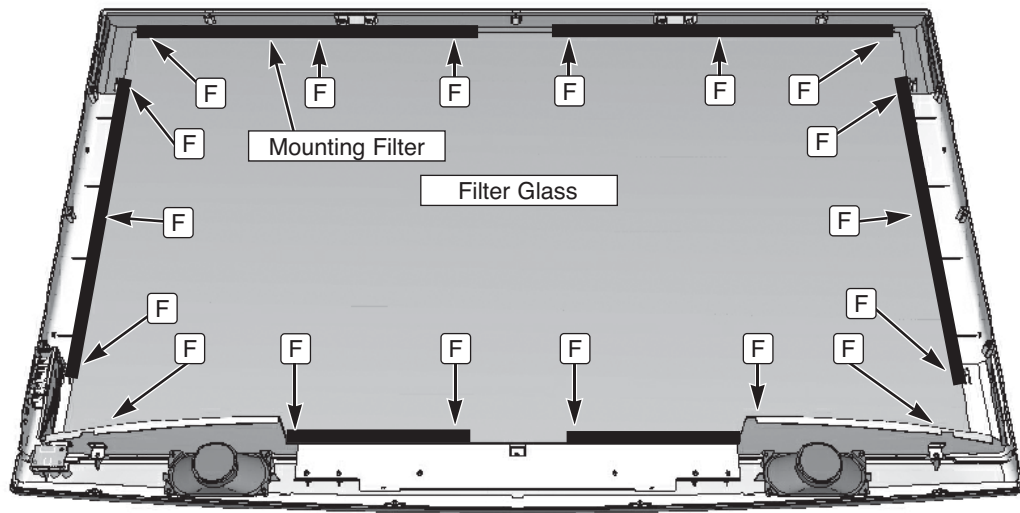
Speakers ~ Main Board: **KSP**

2. Remove 10 screws (A:4x10, 8 pcs; I:4x8, 4 pcs) to take the panel module and panel holders (Mounting Frames) with boards off.



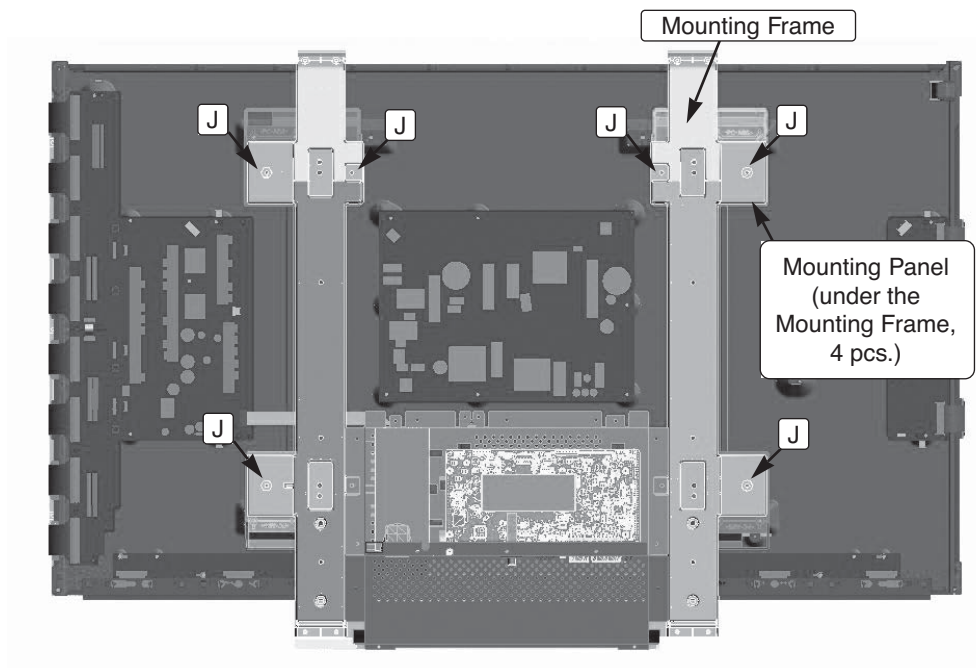
MECHANICAL DISASSEMBLY (Continued)

3. Remove 18 screws (F: 3x6) to take the mounting filter (6 pcs.) and the filter glass off.



PANEL MODULE REMOVAL

1. Disconnect the following socket connections.
PDP Module (Power Unit) ~ Main Board: **P6, P7**
PDP Module (Power Unit) ~ AC inlet: **P9**
2. Remove the 6 screws (J:4x14) from the panel holders (Mounting Frames) to take the panel module off.
3. Remove 8 screws (I: 4x8) to take off each mounting panel (4 pcs.)



CHASSIS ELECTRICAL PARTS LIST

CAUTION: To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS and PRODUCT SAFETY NOTICE on Page 2.

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A Δ IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A Δ . NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A Δ .

Note: Schematic part location numbers may not always match with the part descriptions.
The part descriptions are correct and should be used.

Schematic Location	Part No.	Description
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CAPACITORS

NOTES:

Read description of the Capacitor as follows:

(Example)

CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
D : $\pm 0.5\text{pF}$ E : $\pm 0.1\text{pF}$ F : $\pm 1\text{pF}$
G : $\pm 2\text{pF}$ H : $\pm 0.1 - 0\text{pF}$ L : $\pm 0 - 0.1\text{pF}$
R : $\pm 0.25 - 0\text{pF}$ S : $\pm 0 - 0.25\text{pF}$

More than 10pF

A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
P : $\pm 100-0\%$ Q : $\pm 30-10\%$ T : $\pm 50-10\%$
U : $\pm 75-10\%$ V : $\pm 20-10\%$ W : $\pm 100-10\%$
X : $\pm 40-20\%$ Y : $\pm 150-10\%$ Z : $\pm 80-20\%$

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic
MT-PAPER..... Metallized Paper
POLYESTER..... Polyester
MT-POLYEST..... Metallized Polyester
POLYPRO..... Polypropylene
MT-POLYPRO..... Metallized Polypropylene
COMPO FILM..... Composite Film
MT-COMPO..... Metallized Composite
STYRENE..... Styrene
TA-SOLID..... Tantalum Solid
AL-SOLID..... Aluminium Solid
ELECT..... Electrolytic
NP-ELECT..... Non-polarised Electrolytic
OS-SOLID..... Aluminium Solid with Organic
Semi-conductive Electrolytic

Schematic Location	Part No.	Description
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RESISTORS

NOTES:

Read description of the Resistor as follows:

(Example)

CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:

A...General B...Non-flammable
Z...Low noise
Other... Temperature coefficient

Tolerance Symbols:

A...0.05% B...0.1% C...25%
D...0.5% F...1% G...2%
J...5% K...10% M...20%
P... $\pm 5 - 15\%$

Rated Value, ohms:

K...1,000 M...1,000,000

Material:

CARBON..... Carbon
MT-FILM..... Metal Film
OXIDE-MT..... Oxide Metal Film
SOLID..... Composition
MT-GLAZE..... Metal Glaze
WIRE WOUND..... Wire Wound
CERAMIC RES..... Ceramic
FUSIBLE RES..... Fusible

Schematic Location	Part No.	Description
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CAPACITORS

C001	F1H1H102A219	CERAMIC 1000P K 50V
C002	F1H1H102A219	CERAMIC 1000P K 50V
C003	F1J1E105A171	CERAMIC 1U K 25V
C004	F1J1E105A171	CERAMIC 1U K 25V
C005	F1H1H102A219	CERAMIC 1000P K 50V
C006	F1H1H102A219	CERAMIC 1000P K 50V
C007	F1H1H102A219	CERAMIC 1000P K 50V
C008	F1H1H102A219	CERAMIC 1000P K 50V
C009	F1H1H104A913	CERAMIC 0.1U K 50V
C010	F1H1H104A913	CERAMIC 0.1U K 50V
C011	F1H1H104A913	CERAMIC 0.1U K 50V
C012	F1H1H104A913	CERAMIC 0.1U K 50V
C013	F1H1H104A913	CERAMIC 0.1U K 50V
C014	F1H1H104A913	CERAMIC 0.1U K 50V
C015	F1H1H104A913	CERAMIC 0.1U K 50V
C016	F1H1H104A913	CERAMIC 0.1U K 50V
C017	F2A1E1020115	ELECT 1000U M 25V
C018	F1H1H331A792	CERAMIC 330P J 50V
C019	F1H1H331A792	CERAMIC 330P J 50V
C020	F1J1E105A171	CERAMIC 1U K 25V
C021	F1H1H104A913	CERAMIC 0.1U K 50V
C022	F1H1H104A913	CERAMIC 0.1U K 50V
C023	F1J1E105A171	CERAMIC 1U K 25V
C024	F1H1H104A913	CERAMIC 0.1U K 50V
C025	F1H1H104A913	CERAMIC 0.1U K 50V
C026	F1H1H104A913	CERAMIC 0.1U K 50V
C027	F1H1H104A913	CERAMIC 0.1U K 50V
C028	F1H1H1500009	CERAMIC 15P J 50V
C029	F1H1H1500009	CERAMIC 15P J 50V
C030	F1H1H104A220	CERAMIC 0.1U Z 50V
C031	F1H1H6810003	CERAMIC 680P J 50V
C032	F1H1H1010005	CERAMIC 100P J 50V
C033	F1H1H472A219	CERAMIC 4700P K 50V
C034	F1H1H104A913	CERAMIC 0.1U K 50V
C035	F1H1H104A913	CERAMIC 0.1U K 50V
C036	F1J1E105A171	CERAMIC 1U K 25V
C037	F1J1E105A171	CERAMIC 1U K 25V
C038	F1H1H103A219	CERAMIC 0.01U K 50V
C040	F1H1H104A913	CERAMIC 0.1U K 50V
C041	F1H1H104A913	CERAMIC 0.1U K 50V
C042	F1H1H104A913	CERAMIC 0.1U K 50V
C802	F1H1A105A036	CERAMIC 1U K 10V
C803	F1H1H104A913	CERAMIC 0.1U K 50V
C806	F2A0J2210063	ELECT 220U M 6.3V
C808	F1H1H104A220	CERAMIC 0.1U Z 50V
C809	F1H1A105A036	CERAMIC 1U K 10V
C813	F1H1H104A220	CERAMIC 0.1U Z 50V
C820	F1H1H104A220	CERAMIC 0.1U Z 50V
C821	F1H1H1800004	CERAMIC 18P J 50V
C822	F1H1H2200008	CERAMIC 22P J 50V
C1002	F1H1A105A036	CERAMIC 1U K 10V
C1004	F1H1A105A036	CERAMIC 1U K 10V
C1006	F1H1A105A036	CERAMIC 1U K 10V
C1009	F1H1A105A036	CERAMIC 1U K 10V
C1010	F1H1A105A036	CERAMIC 1U K 10V

Schematic Location	Part No.	Description
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C1012	F1H1A105A036	CERAMIC 1U K 10V
C1014	F1H1A105A036	CERAMIC 1U K 10V
C1016	F1H1A105A036	CERAMIC 1U K 10V
C1025	F1H1H471A792	CERAMIC 470P J 50V
C1201	F1H1H104A220	CERAMIC 0.1U Z 50V
C1600	F1H1H104A913	CERAMIC 0.1U K 50V
C1601	F1H1H104A913	CERAMIC 0.1U K 50V
C1602	F1H1H104A913	CERAMIC 0.1U K 50V
C1603	F1H1H104A913	CERAMIC 0.1U K 50V
C1610	F2A1V4710080	ELECT 470U M 35V
C1611	F1H1E224A098	CERAMIC 0.22U K 25V
C1612	F1H1H223A219	CERAMIC 0.022U K 50V
C1613	F1J1E105A171	CERAMIC 1U K 25V
C1615	F1H1H222A219	CERAMIC 2200P K 50V
C1616	F1J0J106A004	CERAMIC 10U K 6.3V
C1616	F1J0J106A020	CERAMIC 10U K 6.3V
C1617	F2A0J1020089	ELECT 1000U M 6.3V
C1630	F2A1V4710080	ELECT 470U M 35V
C1631	F1H1E224A098	CERAMIC 0.22U K 25V
C1632	F1H1H223A219	CERAMIC 0.022U K 50V
C1633	F1J1E105A171	CERAMIC 1U K 25V
C1635	F1H1H472A219	CERAMIC 4700P K 50V
C1636	F1J0J106A004	CERAMIC 10U K 6.3V
C1636	F1J0J106A020	CERAMIC 10U K 6.3V
C1637	F2A0J1020089	ELECT 1000U M 6.3V
C1640	F2A0J2210063	ELECT 220U M 6.3V
C1641	F1H1A105A036	CERAMIC 1U K 10V
C1643	F1H1A105A036	CERAMIC 1U K 10V
C1644	F1H1A105A036	CERAMIC 1U K 10V
C1645	F2A0J1020089	ELECT 1000U M 6.3V
C1651	F2A0J1020089	ELECT 1000U M 6.3V
C1660	F1H1H104A220	CERAMIC 0.1U Z 50V
C1661	F1J1E105A171	CERAMIC 1U K 25V
C1662	F2A1C101B828	ELECT 100U M 16V
C1663	F1H1H104A220	CERAMIC 0.1U Z 50V
C1664	F2A1C101B828	ELECT 100U M 16V
C1700	F2A1V4710080	ELECT 470U M 35V
C1701	F1H1E474A100	CERAMIC 0.47U K 25V
C1702	F1H1H223A219	CERAMIC 0.022U K 50V
C1703	F1K1H105A138	CERAMIC 1U K 50V
C1705	F1H1H472A219	CERAMIC 4700P K 50V
C1706	F1K1E4750002	CERAMIC 4.7U K 25V
C1707	F2A1E102B736	ELECT 1K U M 25V
C1801	F1H1H104A220	CERAMIC 0.1U Z 50V
C1815	F2A0J2210063	ELECT 220U M 6.3V
C1816	F1J0J106A004	CERAMIC 10U K 6.3V
C1816	F1J0J106A020	CERAMIC 10U K 6.3V
C2403	F1H1H104A220	CERAMIC 0.1U Z 50V
C2404	F1H1H104A220	CERAMIC 0.1U Z 50V
C2405	F1H1A105A036	CERAMIC 1U K 10V
C2407	F1H1A105A036	CERAMIC 1U K 10V
C2409	F1H1H1010005	CERAMIC 100P J 50V
C2410	F1H1H1010005	CERAMIC 100P J 50V
C2416	F1H1H104A220	CERAMIC 0.1U Z 50V
C2417	F1H1H104A220	CERAMIC 0.1U Z 50V
C2418	F1H1H104A220	CERAMIC 0.1U Z 50V

Schematic Location	Part No.	Description
C2440	F1H1H4700006	CERAMIC 47P J 50V
C2441	F1H1H4700006	CERAMIC 47P J 50V
C5500	F1J0J106A004	CERAMIC 10U K 6.3V
C5500	F1J0J106A020	CERAMIC 10U K 6.3V
C5501	F1J0J106A004	CERAMIC 10U K 6.3V
C5501	F1J0J106A020	CERAMIC 10U K 6.3V
C5502	F1J0J106A004	CERAMIC 10U K 6.3V
C5502	F1J0J106A020	CERAMIC 10U K 6.3V
C5503	F1J0J106A004	CERAMIC 10U K 6.3V
C5503	F1J0J106A020	CERAMIC 10U K 6.3V
C5504	F1H1A105A036	CERAMIC 1U K 10V
C5505	F1H1H104A220	CERAMIC 0.1U Z 50V
C5506	F1H1A105A036	CERAMIC 1U K 10V
C5507	F1H1H104A220	CERAMIC 0.1U Z 50V
C5508	F1H1A105A036	CERAMIC 1U K 10V
C5509	F1H1A105A036	CERAMIC 1U K 10V
C5510	F1H1H104A220	CERAMIC 0.1U Z 50V
C5511	F1H1A105A036	CERAMIC 1U K 10V
C5512	F1H1A105A036	CERAMIC 1U K 10V
C5514	F1H1A105A036	CERAMIC 1U K 10V
C5515	F1H1H104A220	CERAMIC 0.1U Z 50V
C5516	F1H1A105A036	CERAMIC 1U K 10V
C5517	F1H1H104A220	CERAMIC 0.1U Z 50V
C5518	F1H1H104A220	CERAMIC 0.1U Z 50V
C5519	F1H1A105A036	CERAMIC 1U K 10V
C5520	F1H1H104A220	CERAMIC 0.1U Z 50V
C5521	F1H1H104A220	CERAMIC 0.1U Z 50V
C5522	F1H1H104A220	CERAMIC 0.1U Z 50V
C5523	F1H1A105A036	CERAMIC 1U K 10V
C5524	F1H1H1010005	CERAMIC 100P J 50V
C5525	F1H1A105A036	CERAMIC 1U K 10V
C5526	F1H1A105A036	CERAMIC 1U K 10V
C5527	F1J0J106A004	CERAMIC 10U K 6.3V
C5527	F1J0J106A020	CERAMIC 10U K 6.3V
C5528	F1H1A105A036	CERAMIC 1U K 10V
C5529	F1H1A105A036	CERAMIC 1U K 10V
C5530	F1H1H104A220	CERAMIC 0.1U Z 50V
C5531	F1H1H104A220	CERAMIC 0.1U Z 50V
C5532	F1H1H104A220	CERAMIC 0.1U Z 50V
C5533	F1H1A105A036	CERAMIC 1U K 10V
C5534	F1H1H104A220	CERAMIC 0.1U Z 50V
C5535	F1J0J106A004	CERAMIC 10U K 6.3V
C5535	F1J0J106A020	CERAMIC 10U K 6.3V
C5536	F1J0J106A004	CERAMIC 10U K 6.3V
C5536	F1J0J106A020	CERAMIC 10U K 6.3V
C5537	F1H1A105A036	CERAMIC 1U K 10V
C5538	F1H1H103A219	CERAMIC 0.01U K 50V
C5539	F1H1A105A036	CERAMIC 1U K 10V
C5540	F1H1A105A036	CERAMIC 1U K 10V
C5541	F1H1A105A036	CERAMIC 1U K 10V
C5542	F1H1A105A036	CERAMIC 1U K 10V
C5544	F1H1H104A220	CERAMIC 0.1U Z 50V
C5545	F1J0J106A004	CERAMIC 10U K 6.3V
C5545	F1J0J106A020	CERAMIC 10U K 6.3V
C5547	F1H1H104A220	CERAMIC 0.1U Z 50V
C5548	F1J0J106A004	CERAMIC 10U K 6.3V

Schematic Location	Part No.	Description
C5548	F1J0J106A020	CERAMIC 10U K 6.3V
C5549	F1H1A105A036	CERAMIC 1U K 10V
C5550	F1H1A105A036	CERAMIC 1U K 10V
C5551	F1H1H104A220	CERAMIC 0.1U Z 50V
C5552	F1H1A105A036	CERAMIC 1U K 10V
C5553	F1H1H103A219	CERAMIC 0.01U K 50V
C5554	F1H1A105A036	CERAMIC 1U K 10V
C5555	F1H1A105A036	CERAMIC 1U K 10V
C5556	F1J0J106A004	CERAMIC 10U K 6.3V
C5556	F1J0J106A020	CERAMIC 10U K 6.3V
C5557	F1H1A105A036	CERAMIC 1U K 10V
C5559	F1H1H7R00007	CERAMIC 7P D 50V
C5560	F1H1A105A036	CERAMIC 1U K 10V
C5561	F1H1H7R00007	CERAMIC 7P D 50V
C5562	F1J0J106A004	CERAMIC 10U K 6.3V
C5562	F1J0J106A020	CERAMIC 10U K 6.3V
C5564	F1H1H104A220	CERAMIC 0.1U Z 50V
C5565	F1H1A105A036	CERAMIC 1U K 10V
C5566	F1H1H104A220	CERAMIC 0.1U Z 50V
C5567	F1H1H103A219	CERAMIC 0.01U K 50V
C5568	F1H1A105A036	CERAMIC 1U K 10V
C5569	F1J0J106A004	CERAMIC 10U K 6.3V
C5569	F1J0J106A020	CERAMIC 10U K 6.3V
C5570	F1H1A105A036	CERAMIC 1U K 10V
C5571	F1H1H104A913	CERAMIC 0.1U K 50V
C5572	F1H1H104A913	CERAMIC 0.1U K 50V
C5573	F1H1H104A913	CERAMIC 0.1U K 50V
C5574	F1H1H104A913	CERAMIC 0.1U K 50V
C5575	F1H1H103A219	CERAMIC 0.01U K 50V
C5576	F1H1A105A036	CERAMIC 1U K 10V
C5577	F1H1H104A913	CERAMIC 0.1U K 50V
C5578	F1J0J106A004	CERAMIC 10U K 6.3V
C5578	F1J0J106A020	CERAMIC 10U K 6.3V
C5579	F1H1A105A036	CERAMIC 1U K 10V
C5580	F1H1H104A913	CERAMIC 0.1U K 50V
C5581	F1H1H104A913	CERAMIC 0.1U K 50V
C5582	F1H1A105A036	CERAMIC 1U K 10V
C5583	F1H1A105A036	CERAMIC 1U K 10V
C5584	F1H1H104A913	CERAMIC 0.1U K 50V
C5585	F1H1H103A219	CERAMIC 0.01U K 50V
C5586	F1H1A105A036	CERAMIC 1U K 10V
C5587	F1J0J106A004	CERAMIC 10U K 6.3V
C5587	F1J0J106A020	CERAMIC 10U K 6.3V
C5588	F1H1H104A913	CERAMIC 0.1U K 50V
C5589	F1J0J106A004	CERAMIC 10U K 6.3V
C5589	F1J0J106A020	CERAMIC 10U K 6.3V
C5590	F1H1A105A036	CERAMIC 1U K 10V
C5591	F1H1H104A913	CERAMIC 0.1U K 50V
C5592	F1H1H104A913	CERAMIC 0.1U K 50V
C5593	F1H1H104A913	CERAMIC 0.1U K 50V
C5594	F1H1H104A220	CERAMIC 0.1U Z 50V
C5595	F1H1A105A036	CERAMIC 1U K 10V
C5596	F1H1A105A036	CERAMIC 1U K 10V
C5597	F1H1A105A036	CERAMIC 1U K 10V
C5598	F1H1H4R0A502	CERAMIC 4P C 50V

Schematic Location	Part No.	Description
C5599	F1H1H4R0A502	CERAMIC 4P C 50V
C5602	F1H1A105A036	CERAMIC 1U K 10V
C5603	F1H1A105A036	CERAMIC 1U K 10V
C5604	F1H1A105A036	CERAMIC 1U K 10V
C5605	F1H1H104A220	CERAMIC 0.1U Z 50V
C5606	F1H1A105A036	CERAMIC 1U K 10V
C5607	F1H1H104A220	CERAMIC 0.1U Z 50V
C5608	F1H1H104A220	CERAMIC 0.1U Z 50V
C5609	F1H1H104A220	CERAMIC 0.1U Z 50V
C5610	F1H1H104A220	CERAMIC 0.1U Z 50V
C5611	F1H1A105A036	CERAMIC 1U K 10V
C5612	F1H1H103A219	CERAMIC 0.01U K 50V
C5613	F1H1A105A036	CERAMIC 1U K 10V
C5614	F1H1A105A036	CERAMIC 1U K 10V
C5615	F1H1H103A219	CERAMIC 0.01U K 50V
C5616	F1H1A105A036	CERAMIC 1U K 10V
C5617	F1J0J106A004	CERAMIC 10U K 6.3V
C5617	F1J0J106A020	CERAMIC 10U K 6.3V
C5618	F1H1A105A036	CERAMIC 1U K 10V
C5619	F1H1H104A220	CERAMIC 0.1U Z 50V
C5620	F1H1A105A036	CERAMIC 1U K 10V
C5621	F1H1A105A036	CERAMIC 1U K 10V
C5622	F2A0J2210063	ELECT 220U M 6.3V
C5623	F1H1H104A220	CERAMIC 0.1U Z 50V
C5624	F1H1H104A220	CERAMIC 0.1U Z 50V
C5625	F2A1H4R7B764	ELECT 4.7 U M 50V
C5630	F1H1A105A036	CERAMIC 1U K 10V
C5631	F2A1V4700087	ELECT 47U M 35V
C5650	F1H1H4700006	CERAMIC 47P J 50V
C5651	F1H1H4700006	CERAMIC 47P J 50V
C5652	F1H1H4700006	CERAMIC 47P J 50V
C5653	F1H1H4700006	CERAMIC 47P J 50V
C5654	F1H1H4700006	CERAMIC 47P J 50V
C5655	F1H1H4700006	CERAMIC 47P J 50V
C5656	F1H1H4700006	CERAMIC 47P J 50V
C5657	F1H1H4700006	CERAMIC 47P J 50V
C5658	F1H1H4700006	CERAMIC 47P J 50V
C5659	F1H1H4700006	CERAMIC 47P J 50V
C5660	F1H1H4700006	CERAMIC 47P J 50V
C5661	F1H1H4700006	CERAMIC 47P J 50V
C5662	F1H1H4700006	CERAMIC 47P J 50V
C5663	F1H1H4700006	CERAMIC 47P J 50V
C5664	F1H1H4700006	CERAMIC 47P J 50V
C5665	F1H1H4700006	CERAMIC 47P J 50V
C5666	F1H1H4700006	CERAMIC 47P J 50V
C5667	F1H1H4700006	CERAMIC 47P J 50V
C5702	F1H1H104A220	CERAMIC 0.1U Z 50V
C5703	F1J0J106A004	CERAMIC 10U K 6.3V
C5703	F1J0J106A020	CERAMIC 10U K 6.3V
C5704	F1H1A105A036	CERAMIC 1U K 10V
C5705	F1H1H104A220	CERAMIC 0.1U Z 50V
C5706	F1H1A105A036	CERAMIC 1U K 10V
C5707	F1H1H104A220	CERAMIC 0.1U Z 50V
C5709	F1J0J106A004	CERAMIC 10U K 6.3V
C5709	F1J0J106A020	CERAMIC 10U K 6.3V
C5710	F1H1A105A036	CERAMIC 1U K 10V

Schematic Location	Part No.	Description
C5711	F1H1H104A220	CERAMIC 0.1U Z 50V
C5712	F1H1A105A036	CERAMIC 1U K 10V
C5713	F1H1A105A036	CERAMIC 1U K 10V
C5714	F1H1H104A220	CERAMIC 0.1U Z 50V
C5715	F1H1A105A036	CERAMIC 1U K 10V
C5716	F1H1H104A220	CERAMIC 0.1U Z 50V
C5717	F1H1H103A219	CERAMIC 0.01U K 50V
C5730	F2A0J2210062	ELECT 220U M 6.3V
C5731	F2A0J2210063	ELECT 220U M 6.3V
C5732	F1H1A105A036	CERAMIC 1U K 10V
C5737	F2A0J1020090	ELECT 1000U M 6.3V
C5750	F1H1A105A036	CERAMIC 1U K 10V
C5901	F1H1H104A220	CERAMIC 0.1U Z 50V
C5902	F1H1E224A098	CERAMIC 0.22U K 25V
C6101	F1H1H103A219	CERAMIC 0.01U K 50V
C6102	F1H1H103A219	CERAMIC 0.01U K 50V
C6105	F1H1H4700006	CERAMIC 47P J 50V
C6106	F1H1H4700006	CERAMIC 47P J 50V
C6110	F2A0J1020089	ELECT 1000U M 6.3V
C6111	F1H1H104A220	CERAMIC 0.1U Z 50V
C6112	F1H1H104A913	CERAMIC 0.1U K 50V
C6130	F1H1H102A219	CERAMIC 1000P K 50V
C6131	F1H1H102A219	CERAMIC 1000P K 50V
C6133	F1H1H1200004	CERAMIC 12P J 50V
C6134	F1H1H1200004	CERAMIC 12P J 50V
C6135	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
C6136	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
C6200	F1H1A105A036	CERAMIC 1U K 10V
C6201	F1H1A105A036	CERAMIC 1U K 10V
C6204	F1H1H471A792	CERAMIC 470P J 50V
C6205	F1H1H104A220	CERAMIC 0.1U Z 50V
C6206	F1H1H680A831	CERAMIC 68P J 50V
C6207	F1H1H680A831	CERAMIC 68P J 50V
C6208	F1H1H104A220	CERAMIC 0.1U Z 50V
C6209	F2A1H100B764	ELECT 10U M 50V
C6210	F1H1H680A831	CERAMIC 68P J 50V
C6211	F1H1H680A831	CERAMIC 68P J 50V
C6212	F1H1H471A792	CERAMIC 470P J 50V
C6213	F1H1A105A036	CERAMIC 1U K 10V
C6214	F1H1A105A036	CERAMIC 1U K 10V
C6510	F1H1H104A220	CERAMIC 0.1U Z 50V
C6533	F1H1H104A220	CERAMIC 0.1U Z 50V
C6563	F1H1H104A220	CERAMIC 0.1U Z 50V
C6600	F1H1H104A220	CERAMIC 0.1U Z 50V
C6601	F1H1H104A220	CERAMIC 0.1U Z 50V
C6602	F1H1H104A220	CERAMIC 0.1U Z 50V
C6603	F1H1H104A220	CERAMIC 0.1U Z 50V
C6604	F1H1H104A220	CERAMIC 0.1U Z 50V
C6605	F1H1H104A220	CERAMIC 0.1U Z 50V
C6606	F1H1H104A220	CERAMIC 0.1U Z 50V
C6607	F1H1H104A220	CERAMIC 0.1U Z 50V
C6608	F1H1H104A220	CERAMIC 0.1U Z 50V
C6609	F1H1H104A220	CERAMIC 0.1U Z 50V
C6610	F1H1H104A220	CERAMIC 0.1U Z 50V
C6611	F1H1H104A913	CERAMIC 0.1U K 50V
C6612	F1H1H104A220	CERAMIC 0.1U Z 50V

Schematic Location	Part No.	Description
C6613	F1H1H104A220	CERAMIC 0.1U Z 50V
C6614	F1H1H104A913	CERAMIC 0.1U K 50V
C6615	F1H1H104A220	CERAMIC 0.1U Z 50V
C6616	F1H1H104A220	CERAMIC 0.1U Z 50V
C6617	F1H1H104A220	CERAMIC 0.1U Z 50V
C6618	F1H1H104A913	CERAMIC 0.1U K 50V
C6630	F1H1H104A220	CERAMIC 0.1U Z 50V
C6631	F1J1E105A171	CERAMIC 1U K 25V
C6632	F2A0J2210063	ELECT 220U M 6.3V
C6633	F1H1H104A220	CERAMIC 0.1U Z 50V
C6634	F2A0J2210063	ELECT 220U M 6.3V
C6650	F1H1H104A220	CERAMIC 0.1U Z 50V
C6651	F1J1E105A171	CERAMIC 1U K 25V
C6652	F2A1V4700087	ELECT 47U M 35V
C6653	F1H1H104A220	CERAMIC 0.1U Z 50V
C6654	F2A1V4700087	ELECT 47U M 35V
C6655	F2A1V4700087	ELECT 47U M 35V
C8501	F1H1A105A036	CERAMIC 1U K 10V
C8503	F1H1H103A219	CERAMIC 0.01U K 50V
C8504	F2A0J2210063	ELECT 220U M 6.3V

DIODES

D002	B0ACCK000005	DIODE 1SS355-TE-17
	B0ACCK000019	DIODE 1SS355
	B0ACDJ000007	DIODE 1SS352-(TPH3)
D003	B0ACCK000005	DIODE 1SS355-TE-17
	B0ACCK000019	DIODE 1SS355
	B0ACDJ000007	DIODE 1SS352-(TPH3)
D007	B0BC6R100010	ZD UDZS-TE-176.2B
	B0BC6R100025	ZENER DIODE 02DZ6.2Y(TPH3)
	B0BC6R2A0384	ZENER DIODE MM3Z6V2B
D008	B0BC6R100010	ZD UDZS-TE-176.2B
	B0BC6R100025	ZENER DIODE 02DZ6.2Y(TPH3)
	B0BC6R2A0384	ZENER DIODE MM3Z6V2B
D801	B0BC3R9A0384	ZENER DIODE MM3Z3V9B
	B0BC4R0A0006	ZD UDZS-TE-173.9B
	DZ02DZ3.9Y—G	ZENER DIODE 02DZ3.9Y(TPH3)
D8500	B0ZBZ0000174	DIODE DF2S6.8UFS
D8501	B0ZBZ0000174	DIODE DF2S6.8UFS
D1000	B0BC3R9A0384	ZENER DIODE MM3Z3V9B
	B0BC4R0A0006	ZD UDZS-TE-173.9B
	DZ02DZ3.9Y—G	ZENER DIODE 02DZ3.9Y(TPH3)
D1001	B0BC3R9A0384	ZENER DIODE MM3Z3V9B
	B0BC4R0A0006	ZD UDZS-TE-173.9B
	DZ02DZ3.9Y—G	ZENER DIODE 02DZ3.9Y(TPH3)
D1610	DDSS3P3-E3—G	DIODE SS3P3-E3/84A
	DDSS3P3-M3—G	DIODE SS3P3-M3/84A
D1620	B0ACCK000005	DIODE 1SS355-TE-17
	B0ACCK000019	DIODE 1SS355
	B0ACDJ000007	DIODE 1SS352-(TPH3)
D1621	B0BC3R0A0384	ZENER DIODE MM3Z3V0B
	DZ02DZ3.0Y—G	ZENER DIODE 02DZ3.0Y(TPH3)
	DZUDZS3.0B—G	ZENER DIODE UDZS3.0B-TE-1
D1630	DDSS3P3-E3—G	DIODE SS3P3-E3/84A
	DDSS3P3-M3—G	DIODE SS3P3-M3/84A

Schematic Location	Part No.	Description
D1651	B0ACCK000005	DIODE 1SS355-TE-17
	B0ACCK000019	DIODE 1SS355
	B0ACDJ000007	DIODE 1SS352-(TPH3)
D1660	B0ACCK000005	DIODE 1SS355-TE-17
	B0ACCK000019	DIODE 1SS355
	B0ACDJ000007	DIODE 1SS352-(TPH3)
D1671	B0ACCK000005	DIODE 1SS355-TE-17
	B0ACCK000019	DIODE 1SS355
	B0ACDJ000007	DIODE 1SS352-(TPH3)
D1700	DDSS3P3-E3—G	DIODE SS3P3-E3/84A
	DDSS3P3-M3—G	DIODE SS3P3-M3/84A
D2402	B0JCGD000002	DIODE RB551V-30-TE-17
D2403	B0JCGD000002	DIODE RB551V-30-TE-17
D6501	B0JCGD000002	DIODE RB551V-30-TE-17
D6502	B0JCGD000002	DIODE RB551V-30-TE-17
D6503	B0JCGD000002	DIODE RB551V-30-TE-17

INTEGRATED CIRCUITS

IC001	C1AB00003633	IC STA333BW13TR
IC002	COJBAA000505	IC 74AHCT1G08GW
	COJBAA000077	IC TC7SET08FU-(TE85L)
IC800	QXXAAJQ1239—	IC LC87F2932AVU-Y10LCD
IC800A	C2BBYY000888	IC LC87F2932AVU-QIP-E
IC800C	1AA6P4P2084—	LABEL-LC87F2932AVU-Y10LCD
IC801	C3EBDY000038	IC LE24C023M-TLM-E
	QXXAVC837—P	IC AT24C02BN-10SU-1.8
	QXXAVC986—P	IC CAT24C02WI-GT3
IC1200	COJBAR000390	IC CD4052BNSR
	QTC4052BF—P	IC TC4052BF(EL)
IC1610	C0DBAYY00462	IC LV5803M-TE-L-E
IC1630	C0DBAYY00462	IC LV5803M-TE-L-E
IC1640	C0DBEYY00016	IC PQ070XNA1ZPH
IC1660	C0CBAYG00009	IC LM1117S-ADJ
IC1700	C0DBAYY00462	IC LV5803M-TE-L-E
IC1801	COJBAA000505	IC 74AHCT1G08GW
	COJBAA000077	IC TC7SET08FU-(TE85L)
IC2401	COJBAA000356	IC TC7SH08FU(TE85L)
IC2402	COJBAA000356	IC TC7SH08FU(TE85L)
IC2404	COJBAA000356	IC TC7SH08FU(TE85L)
	COJBAA000484	IC 74AHC1G08GW
IC2405	COJBAA000356	IC TC7SH08FU(TE85L)
	COJBAA000484	IC 74AHC1G08GW
IC5500	QXXAVD166—M	IC BCM35143KQLEG
IC5600	C3EBDY000038	IC LE24C023M-TLM-E
	QXXAVC837—P	IC AT24C02BN-10SU-1.8
	QXXAVC986—P	IC CAT24C02WI-GT3
IC5623	COJBAA000356	IC TC7SH08FU(TE85L)
	COJBAA000484	IC 74AHC1G08GW
IC5624	COJBAA000356	IC TC7SH08FU(TE85L)
	COJBAA000484	IC 74AHC1G08GW
IC5700	C3ABSY000081	IC A3R12E4JFF-G8E
IC5730	C0DBEYY00016	IC PQ070XNA1ZPH
IC5750	QXXAAJQ1157—	IC W25Q128BVFIF
IC5750A	C3FBQY000054	IC W25Q128BVFIF
IC5750C	1AA6P4P2088—	LABEL-W25Q128BVFIF

Schematic Location	Part No.	Description
IC5900	C0EBY0000980	IC XC6108N28AMR
IC6200	C0ABBB000350	IC BA4558RF-E2
	C0ABBB000450	IC NJM4558M-TE2
IC6600	QTDA9996—M	IC TDA9996
IC6630	C0CBAYG00009	IC LM1117S-ADJ
IC6650	C0CBAYG00009	IC LM1117S-ADJ
IC8500	C0DBZYY00458	IC RT9711CGB

COILS

L001	G1C220MA0445	"INDUCTOR ,22UH"
L002	G1C220MA0445	"INDUCTOR ,22UH"
L003	G1C220MA0445	"INDUCTOR ,22UH"
L009	JOJCC0000371	"INDUCTOR , 120 OHM"
L011	JOJYC0000381	"INDUCTOR , 220 OHM"
L012	JOJYC0000381	"INDUCTOR , 220 OHM"
L013	G1C220MA0445	"INDUCTOR ,22UH"
L017	JOJCC0000371	"INDUCTOR , 120 OHM"
L1000	G1C3R3MA0061	"INDUCTOR,3.3U M"
L1200	G1C3R3MA0061	"INDUCTOR,3.3U M"
L1602	JOJYC0000381	"INDUCTOR , 220 OHM"
L1604	JOJYC0000381	"INDUCTOR , 220 OHM"
L1605	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1606	JOJYC0000381	"INDUCTOR , 220 OHM"
L1607	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1608	JOJYC0000381	"INDUCTOR , 220 OHM"
L1609	JOJYC0000381	"INDUCTOR , 220 OHM"
L1610	JOJYC0000381	"INDUCTOR , 220 OHM"
L1613	JOJYC0000381	"INDUCTOR , 220 OHM"
L1614	JOJYC0000381	"INDUCTOR , 220 OHM"
L1615	G1C100MA0445	INDUCTOR 10U M
L1616	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1630	G1C100MA0445	INDUCTOR 10U M
L1631	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1644	G1C100MA0445	INDUCTOR 10U M
L1661	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1673	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1674	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1677	JOJYC0000381	"INDUCTOR , 220 OHM"
L1680	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L1716	G1C100MA0445	INDUCTOR 10U M
L2401	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
L5500	JOJYC0000381	"INDUCTOR , 220 OHM"
L5501	JOJCC0000371	"INDUCTOR , 120 OHM"
L5502	JOJCC0000371	"INDUCTOR , 120 OHM"
L5503	JOJCC0000371	"INDUCTOR , 120 OHM"
L5504	JOJCC0000371	"INDUCTOR , 120 OHM"
L5505	JOJCC0000371	"INDUCTOR , 120 OHM"
L5506	JOJCC0000371	"INDUCTOR , 120 OHM"
L5507	JOJCC0000371	"INDUCTOR , 120 OHM"
L5508	JOJCC0000371	"INDUCTOR , 120 OHM"
L5509	JOJCC0000371	"INDUCTOR , 120 OHM"
L5511	JOJCC0000371	"INDUCTOR , 120 OHM"
L5512	JOJCC0000371	"INDUCTOR , 120 OHM"
L5513	JOJCC0000371	"INDUCTOR , 120 OHM"
L5514	JOJCC0000371	"INDUCTOR , 120 OHM"

Schematic Location	Part No.	Description
L5515	JOJCC0000371	"INDUCTOR , 120 OHM"
L5516	JOJCC0000371	"INDUCTOR , 120 OHM"
L5517	JOJCC0000371	"INDUCTOR , 120 OHM"
L5518	JOJCC0000371	"INDUCTOR , 120 OHM"
L5519	JOJCC0000371	"INDUCTOR , 120 OHM"
L5520	JOJCC0000371	"INDUCTOR , 120 OHM"
L5521	JOJCC0000371	"INDUCTOR , 120 OHM"
L5555	D0GB4R7J0002	MT-GLAZE 4.7 JA 1/10W
L5650	G1CR47JA0041	"INDUCTOR,0.47U J"
L5651	G1CR47JA0041	"INDUCTOR,0.47U J"
L5652	G1CR47JA0041	"INDUCTOR,0.47U J"
L5653	G1CR47JA0041	"INDUCTOR,0.47U J"
L5654	G1CR47JA0041	"INDUCTOR,0.47U J"
L5655	G1CR47JA0041	"INDUCTOR,0.47U J"
L5660	G1CR47JA0041	"INDUCTOR,0.47U J"
L5661	G1CR47JA0041	"INDUCTOR,0.47U J"
L5662	G1CR47JA0041	"INDUCTOR,0.47U J"
L5701	JOJYC0000381	"INDUCTOR , 220 OHM"
L5730	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6100	D0GB121J0002	MT-GLAZE 120 JA 1/10W
L6101	D0GB121J0002	MT-GLAZE 120 JA 1/10W
L6104	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6105	G1C3R3MA0061	"INDUCTOR,3.3U M"
L6117	JOJYC0000381	"INDUCTOR , 220 OHM"
L6131	G1CR47JA0041	"INDUCTOR,0.47U J"
L6132	G1CR47JA0041	"INDUCTOR,0.47U J"
L6200	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6305	JOJAD0000028	"IMPEDANCE,200 OHM M"
L6306	JOJAD0000028	"IMPEDANCE,200 OHM M"
L6307	JOJAD0000028	"IMPEDANCE,200 OHM M"
L6351	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
L6600	JOJCC0000371	"INDUCTOR , 120 OHM"
L6630	JOJYC0000381	"INDUCTOR , 220 OHM"
L6651	JOJCC0000371	"INDUCTOR , 120 OHM"
L6670	JOJCC0000371	"INDUCTOR , 120 OHM"
L6671	JOJCC0000371	"INDUCTOR , 120 OHM"
L800	G1C3R3MA0061	"INDUCTOR,3.3U M"
L801	G1C3R3MA0061	"INDUCTOR,3.3U M"
L8500	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W

TRANSISTORS

Q801	B1ADCF000194	TR ISA1235AC1F
	B1ADCF000201	TR ISA1235AC1E
	TXXLBB005—P	TR MMBTSA1235F
Q806	B1ADCF000194	TR ISA1235AC1F
	B1ADCF000201	TR ISA1235AC1E
	TXXLBB005—P	TR MMBTSA1235F
Q808	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
	TXXLBB006—P	TR MMBTSC3928R
Q1001	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
	TXXLBB006—P	TR MMBTSC3928R
Q1002	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R

Schematic Location	Part No.	Description
Q1200	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q1201	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q1202	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q1203	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q1610	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q1620	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q1621	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q1623	TXXLBB006—P	TR MMBTSC3928R
	B1ABGD000003	TR 2SC2411K-T146-Q
	B1ABGD000003	TR 2SC2411K-T146-Q
Q1700	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q1801	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q1802	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q2401	TXXLBB006—P	TR MMBTSC3928R
	B1CFGD000003	TR UM6K1N-TN
Q5580	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R
Q6530	TXXLBB006—P	TR MMBTSC3928R
	B1CFGD000025	TR 3LN01C-TB-E
Q8500	TXXLBB006—P	TR MMBTSC3928R
	B1ABDF000012	TR 2SC3928A1S
	B1ABDF000013	TR 2SC3928A1R

RESISTORS

R001	D0GB5R6JA072	MT-GLAZE	5.6 JA 1/10W
R002	D0GB5R6JA072	MT-GLAZE	5.6 JA 1/10W
R003	D0GB5R6JA072	MT-GLAZE	5.6 JA 1/10W
R004	D0GB5R6JA072	MT-GLAZE	5.6 JA 1/10W
R005	D0GB470J0002	MT-GLAZE	47 JA 1/10W
R006	D0GB470J0002	MT-GLAZE	47 JA 1/10W
R007	JOJCC0000371	"INDUCTOR, 120 OHM"	
R008	JOJCC0000371	"INDUCTOR, 120 OHM"	
R009	D0GB103JA072	MT-GLAZE	10K JA 1/10W
R010	D0GB100JA072	MT-GLAZE	10 JA 1/10W
R012	D0GB101JA069	MT-GLAZE	100 JA 1/10W
R013	D0GB101JA069	MT-GLAZE	100 JA 1/10W

Schematic Location	Part No.	Description
R015	D0GB222JA072	MT-GLAZE 2.2K JA 1/10W
R016	D0GB122JA072	MT-GLAZE 1.2K JA 1/10W
R019	D0GB222JA072	MT-GLAZE 2.2K JA 1/10W
R021	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R022	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R023	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R808	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R810	D0GB471JA069	MT-GLAZE 470 JA 1/10W
R811	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R813	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R822	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R826	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R827	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R828	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R829	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R830	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R833	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R835	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R839	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R840	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R842	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R845	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R846	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R848	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R852	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R853	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R854	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R857	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R858	D0GB104JA068	MT-GLAZE 100K JA 1/10W
R859	D0GB104JA068	MT-GLAZE 100K JA 1/10W
R860	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R861	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R862	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R865	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R871	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R873	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R875	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R876	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R877	D0GB334JA068	MT-GLAZE 330K JA 1/10W
R879	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R883	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R884	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R885	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R886	D0GB104JA068	MT-GLAZE 100K JA 1/10W
R887	D0GB104JA068	MT-GLAZE 100K JA 1/10W
R888	D0GB104JA068	MT-GLAZE 100K JA 1/10W
R890	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R891	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R892	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R893	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R894	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R897	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R899	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R901	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R902	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1005	D0GB750JA072	MT-GLAZE 75 JA 1/10W

Schematic Location	Part No.	Description
R1012	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1014	D0GB154JA068	MT-GLAZE 150K JA 1/10W
R1015	D0GB224JA068	MT-GLAZE 220K JA 1/10W
R1016	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1018	D0GB334JA068	MT-GLAZE 330K JA 1/10W
R1019	D0GB154JA068	MT-GLAZE 150K JA 1/10W
R1020	D0GB224JA068	MT-GLAZE 220K JA 1/10W
R1021	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1022	D0GB334JA068	MT-GLAZE 330K JA 1/10W
R1036	D0GB471JA069	MT-GLAZE 470 JA 1/10W
R1037	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R1038	D0GB104JA068	MT-GLAZE 100K JA 1/10W
R1040	D0GB471JA069	MT-GLAZE 470 JA 1/10W
R1041	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R1042	D0GB104JA068	MT-GLAZE 100K JA 1/10W
R1043	D0GB154JA068	MT-GLAZE 150K JA 1/10W
R1044	D0GB224JA068	MT-GLAZE 220K JA 1/10W
R1045	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1046	D0GB334JA068	MT-GLAZE 330K JA 1/10W
R1047	D0GB154JA068	MT-GLAZE 150K JA 1/10W
R1048	D0GB224JA068	MT-GLAZE 220K JA 1/10W
R1049	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1050	D0GB334JA068	MT-GLAZE 330K JA 1/10W
R1051	D0GB154JA068	MT-GLAZE 150K JA 1/10W
R1052	D0GB224JA068	MT-GLAZE 220K JA 1/10W
R1053	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1054	D0GB334JA068	MT-GLAZE 330K JA 1/10W
R1055	D0GB154JA068	MT-GLAZE 150K JA 1/10W
R1056	D0GB224JA068	MT-GLAZE 220K JA 1/10W
R1057	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1058	D0GB334JA068	MT-GLAZE 330K JA 1/10W
R1077	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1096	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1098	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1100	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1102	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1104	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1106	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1108	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1110	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1200	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1201	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1202	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1203	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1205	D0GB222JA072	MT-GLAZE 2.2K JA 1/10W
R1207	D0GB222JA072	MT-GLAZE 2.2K JA 1/10W
R1208	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1209	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1600	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1610	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R1612	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1613	D0GB472ZA038	MT-GLAZE 4.7K FA 1/10W
R1614	D0GB562JA072	MT-GLAZE 5.6K JA 1/10W
R1616	D0GB122ZA038	MT-GLAZE 1.2K FA 1/10W
R1618	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1622	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
R1623	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1624	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R1625	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R1628	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R1630	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R1631	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1632	D0GB152ZA038	MT-GLAZE 1.5K FA 1/10W
R1633	D0GB562JA072	MT-GLAZE 5.6K JA 1/10W
R1635	D0GB472ZA038	MT-GLAZE 4.7K FA 1/10W
R1637	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1638	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
R1640	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
R1641	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R1643	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1644	D0GB471ZA037	MT-GLAZE 470 FA 1/10W
R1645	D0GB102ZA038	MT-GLAZE 1K FA 1/10W
R1647	D0GB680JA072	MT-GLAZE 68 JA 1/10W
R1648	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1656	D0GZ470JA017	MT-GLAZE 47 JA 1W
R1657	D0GZ220JA017	MT-GLAZE 22 JA 1W
R1660	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1661	D0GB222JA072	MT-GLAZE 2.2K JA 1/10W
R1662	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1664	D0GB121ZA038	MT-GLAZE 120 FA 1/10W
R1665	D0GB120JA072	MT-GLAZE 12 JA 1/10W
R1666	D0GB821ZA037	MT-GLAZE 820 FA 1/10W
R1682	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1684	D0GZ471JA019	MT-GLAZE 470 JA 1W
R1685	D0GZR47JA017	MT-GLAZE 0.47 JA 1W
R1701	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1702	D0GB223JA070	MT-GLAZE 22K JA 1/10W
R1703	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1704	D0GB102ZA038	MT-GLAZE 1K FA 1/10W
R1705	D0GB562JA072	MT-GLAZE 5.6K JA 1/10W
R1707	D0GB472ZA038	MT-GLAZE 4.7K FA 1/10W
R1709	D0GB561JA069	MT-GLAZE 560 JA 1/10W
R1800	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1801	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1802	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1805	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1806	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1807	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1808	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1810	D0GB331JA069	MT-GLAZE 330 JA 1/10W
R1811	D0GB331JA069	MT-GLAZE 330 JA 1/10W
R1812	D0GB122JA072	MT-GLAZE 1.2K JA 1/10W
R1813	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1815	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1826	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1827	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1833	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1835	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1850	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R1851	D0GB104JA068	MT-GLAZE 100K JA 1/10W
R1852	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R1853	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
R1854	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1856	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R1858	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R1869	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R2404	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2405	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2406	D0GB154JA068	MT-GLAZE 150K JA 1/10W
R2407	D0GB224JA068	MT-GLAZE 220K JA 1/10W
R2408	D0GB154JA068	MT-GLAZE 150K JA 1/10W
R2409	D0GB224JA068	MT-GLAZE 220K JA 1/10W
R2410	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2411	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2412	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R2414	D0GB334JA068	MT-GLAZE 330K JA 1/10W
R2415	D0GB334JA068	MT-GLAZE 330K JA 1/10W
R2419	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R2420	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R2421	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2422	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2426	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2427	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2428	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2429	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2430	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2434	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R2435	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R2436	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R2437	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R2438	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2445	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2446	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2448	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R2449	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R2455	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R2457	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2458	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R2460	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5500	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5501	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5502	D0GB152JA072	MT-GLAZE 1.5K JA 1/10W
R5503	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5504	D0GB152JA072	MT-GLAZE 1.5K JA 1/10W
R5505	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5506	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5507	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5508	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5509	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5510	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5511	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5512	D0GB122ZA038	MT-GLAZE 1.2K FA 1/10W
R5513	D0GB182ZA044	MT-GLAZE 1.8K FA 1/10W
R5514	D0GB105JA071	MT-GLAZE 1M JA 1/10W
R5515	D0GB151JA069	MT-GLAZE 150 JA 1/10W
R5516	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5517	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5518	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
R5519	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5520	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5521	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5522	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5523	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5524	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5525	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5526	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5527	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5528	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5529	D0GB750JA072	MT-GLAZE 75 JA 1/10W
R5530	D0GB392ZA038	MT-GLAZE 3.9K FA 1/10W
R5531	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5532	D0GB105JA071	MT-GLAZE 1M JA 1/10W
R5533	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5534	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5535	D0GB820JA072	MT-GLAZE 82 JA 1/10W
R5536	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5540	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5541	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5542	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5545	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5547	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5548	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5549	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5550	D0GB820JA072	MT-GLAZE 82 JA 1/10W
R5559	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5561	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5562	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5563	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5565	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5566	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5568	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5569	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5571	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5572	JOJCC0000371	"INDUCTOR, 120 OHM"
R5573	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5574	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5575	JOJCC0000371	"INDUCTOR, 120 OHM"
R5578	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5581	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5585	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5586	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5587	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5588	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5591	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5594	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5596	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5600	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5601	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R5623	JOJCC0000371	"INDUCTOR, 120 OHM"
R5624	JOJCC0000371	"INDUCTOR, 120 OHM"
R5700	D0GB101ZA037	MT-GLAZE 100 FA 1/10W
R5701	D0GB101ZA037	MT-GLAZE 100 FA 1/10W
R5702	D0GB560ZA040	MT-GLAZE 56 FA 1/10W
R5703	D0GB560ZA040	MT-GLAZE 56 FA 1/10W

Schematic Location	Part No.	Description
R5730	D0GZR47JA017	MT-GLAZE 0.47 JA 1W
R5731	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R5733	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
R5736	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5737	D0GB471ZA037	MT-GLAZE 470 FA 1/10W
R5738	D0GB102ZA038	MT-GLAZE 1K FA 1/10W
R5740	D0GB680JA072	MT-GLAZE 68 JA 1/10W
R5751	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5753	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R5900	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5901	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R5902	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5949	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R5950	D0GB220JA072	MT-GLAZE 22 JA 1/10W
R5954	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5955	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5956	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5957	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R5959	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R6100	D0GB822JA072	MT-GLAZE 8.2K JA 1/10W
R6101	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6104	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6105	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6107	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R6109	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R6110	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6116	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6130	D0GB102JA071	MT-GLAZE 1K JA 1/10W
R6200	D0GB222ZA038	MT-GLAZE 2.2K FA 1/10W
R6201	D0GB222ZA038	MT-GLAZE 2.2K FA 1/10W
R6202	D0GB333ZA038	MT-GLAZE 33K FA 1/10W
R6203	D0GB333ZA038	MT-GLAZE 33K FA 1/10W
R6204	D0GB683ZA038	MT-GLAZE 68K FA 1/10W
R6205	D0GB683ZA038	MT-GLAZE 68K FA 1/10W
R6206	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R6207	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R6208	D0GB683ZA038	MT-GLAZE 68K FA 1/10W
R6209	D0GB683ZA038	MT-GLAZE 68K FA 1/10W
R6210	D0GB333ZA038	MT-GLAZE 33K FA 1/10W
R6211	D0GB333ZA038	MT-GLAZE 33K FA 1/10W
R6212	D0GB222ZA038	MT-GLAZE 2.2K FA 1/10W
R6213	D0GB222ZA038	MT-GLAZE 2.2K FA 1/10W
R6301	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R6305	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R6306	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R6310	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R6311	D0GB101JA069	MT-GLAZE 100 JA 1/10W
R6320	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6322	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6323	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6351	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R6509	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R6510	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R6511	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6512	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
R6513	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6514	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6515	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6516	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6517	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6518	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6519	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6520	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6531	D0GB222JA072	MT-GLAZE 2.2K JA 1/10W
R6532	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R6539	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R6540	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R6541	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6542	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6543	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6544	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6545	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6546	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6547	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6548	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6549	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6550	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6569	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R6570	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R6571	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6572	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6573	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6575	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6576	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6577	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6578	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6579	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6580	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6581	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6600	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6601	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R6604	D0GB123ZA038	MT-GLAZE 12K FA 1/10W
R6630	D0GB221Z0002	MT-GLAZE 220 FA 1/10W
R6631	D0GB470J0002	MT-GLAZE 47 JA 1/10W
R6632	D0GB121ZA038	MT-GLAZE 120 FA 1/10W
R6650	D0GB121ZA038	MT-GLAZE 120 FA 1/10W
R6651	D0GB120JA072	MT-GLAZE 12 JA 1/10W
R6652	D0GB221Z0002	MT-GLAZE 220 FA 1/10W
R8502	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R8504	D0GB472JA072	MT-GLAZE 4.7K JA 1/10W
R8506	D0GB224JA068	MT-GLAZE 220K JA 1/10W
R8507	D0GB473JA072	MT-GLAZE 47K JA 1/10W
R8508	D0GB103JA072	MT-GLAZE 10K JA 1/10W
R8509	RGFR000ZTAANL	MT-GLAZE 0.000 ZA 1/10W
R8510	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W
R8511	D0GBR00JA071	MT-GLAZE 0.000 ZA 1/10W

Schematic Location	Part No.	Description
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CRYSTAL/OSCILLATOR

X800	H2D800400015	"OSC,CERAMIC 8.00MHZ"
X801	H0A327200178	"OSC,CRYSTAL 32.768KHZ"
X5500	H0J541500001	"OSC,CRYSTAL 54.1MHZ"
X5501	H0J240500075	"OSC,CRYSTAL 24MHZ"

Schematic Location	Part No.	Description
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MISCELLANEOUS

⚠ A100	1AA0B10N310L0	"ASSY,PWB,MAIN_B-J4FL_SEI"
⚠ A6100	J3ABAB00002	"TUNER,U/V"
⚠ EL901	1AV4T44B02900	PDP MODULE
⚠ EL902	1AV4Z12B62000	OPTICAL FILTER
⚠ EL902	1AV4Z12B62200	OPTICAL FILTER
KAC	J0HAYY000120	"UNIT,NOISE FILTER"
K1003	K1U208B00010	"TERMINAL, BOARD"
K1004	K2HA9YYB0006	"JACK,RCA-9"
K1005	K2HA6YYB0012	"JACK,RCA-6"
K2401	K2HC1YYB0066	"JACK,PHONE D3.6"
K2402	K1FY115B0028	"SOCKET,D-SUB 15P"
K5LVDS	K1KA40AA0009	"PLUG,40P"
K6501	K1FY119E0034	"SOCKET,IF(HDMI) 19P"
K6502	K1FY119E0034	"SOCKET,IF(HDMI) 19P"
K6503	K1FY119E0034	"SOCKET,IF(HDMI) 19P"
K802	1AV4J10EA053J	"PLUG,5P"
K803	1AV4J10EA073J	"PLUG,7P"
K8B	1AV4J10FT140N	"PLUG,PWB 14P"
K8CTR	K1KA08AA0193	"PLUG,8P"
KSP	K1KY04AA0939	"PLUG,4P"
KUSB	K1FY104B0069	"SOCKET,USB 4P"
SPL	L0AA12C00015	"SPEAKER,8"
SPR	L0AA12C00015	"SPEAKER,8"
⚠ WK5LV-PN	1AA4W30B61901	"CORD 50INCH,40P-31P(LVDS)"

FOR PANEL SERVICE PARTS

8MD50H13M1J--	PDP PANEL
8N0AB6JK00001	ASSY.PWB POWER P
8THEL037N----	SCREW
8THTF016J----	SCREW
8TSXL519-----	CABLE
8TSXL927-----	"CABLE,C10-C20"
8TSXM051-----	"CABLE,D20-SC20"
8TSXM052-----	"CABLE,C11-D31"
8TSXM053-----	"CABLE,C21-D32"
8TXNC111FEV--	PCB CIRCUIT BOARD C1
8TXNC211FEV--	PCB CIRCUIT BOARD C2
8TXNSC11FEV--	PCB CIRCUIT BOARD SC
8TXNSD11FEV--	PCB CIRCUIT BOARD SD
8TXNSS11FEV--	PCB CIRCUIT BOARD SS
8TXNSU11FEV--	PCB CIRCUIT BOARD SU
8TZTNP011FEV-	"INTERFACE,DIGITALPRO,D"
8XYN3+J10FJ--	SCREW
8XYN4+F10FJ--	SCREW

"For Main Board replacement please get the correct assembly name/part number"

Service Name: ASSY,PWB,MAIN_B-J4FL_SEI

Japan BOM part number: 1AA0B10N310L0

"For KEW_SW unit replacement please get the correct assembly name/part number"

Service Name: ASSY,PWB,KEY_SW N7AL

Japan BOM part number: 1AA0B10N284A0

"For RC_LED unit replacement please get the correct assembly name/part number"

Service Name: ASSY,PWB,RC_LED N7AL

Japan BOM part number: 1AA0B10N28800

"For Power Board replacement please get the correct assembly name/part number"

Service Name: ASSY.PWB POWER P

Japan BOM part number: 8N0AB6JK00001

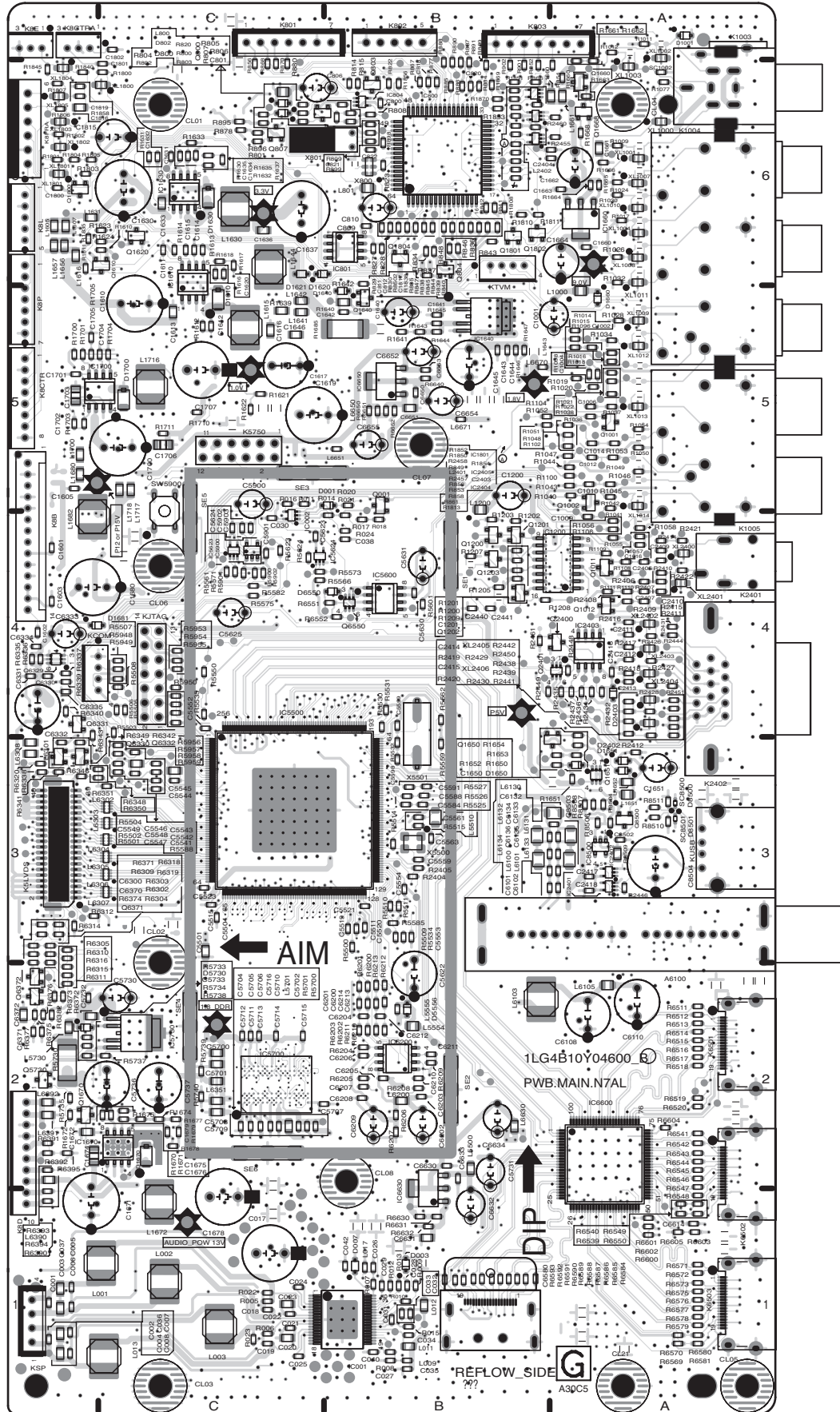
"For Logic Unit Board replacement please get the correct assembly name/part number"

Service Name: INTERFACE, DIGITALPRO, D

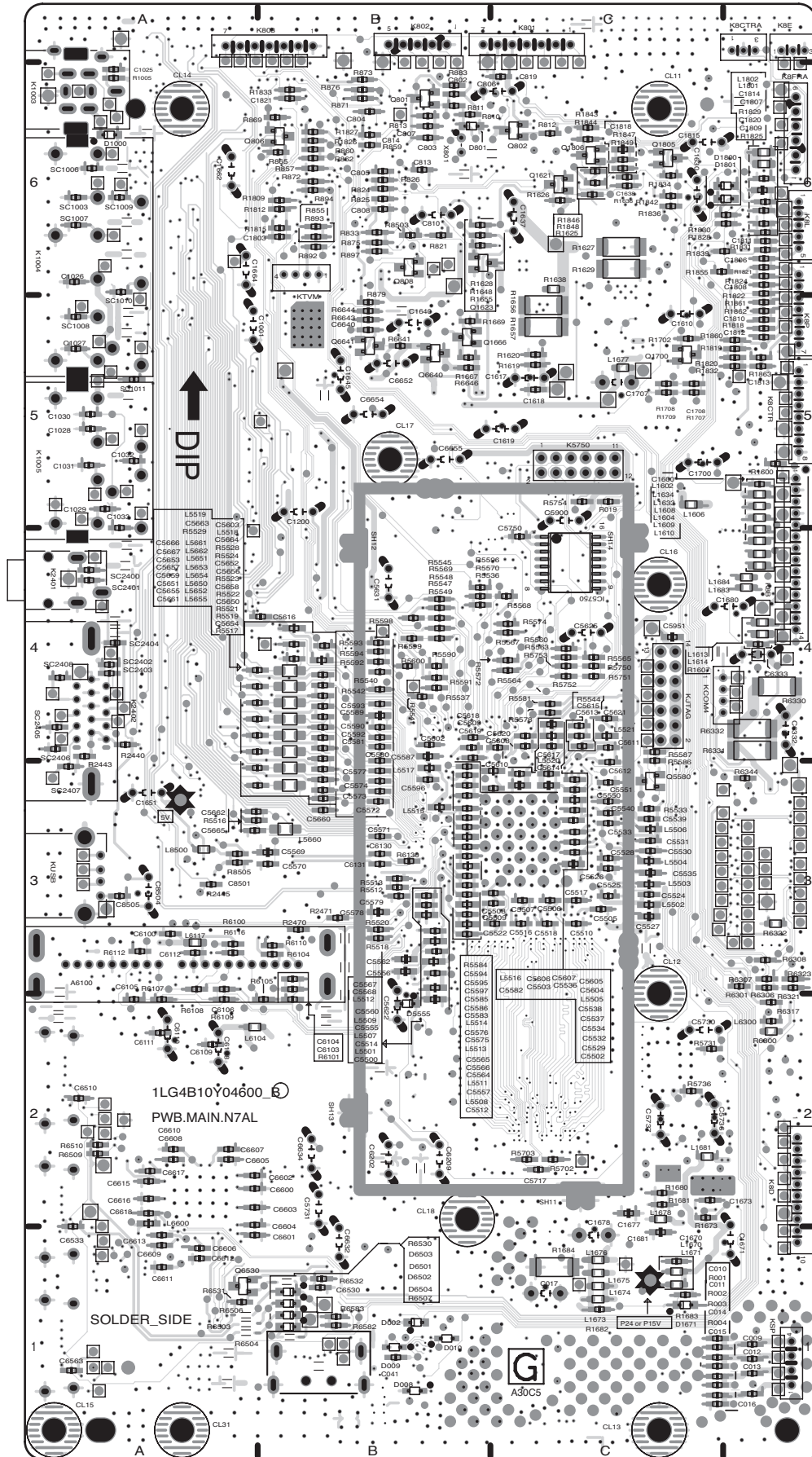
Japan BOM part number: 8TZTNP011FEV-

COMPONENT AND TESTPOINT LOCATIONS

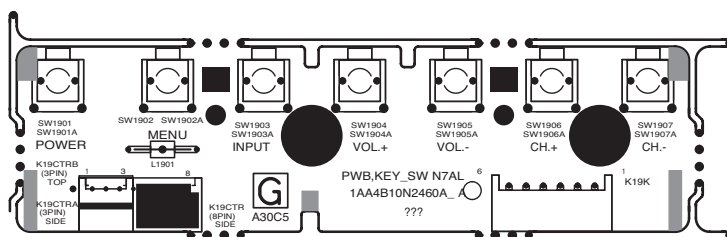
MAIN BOARD PARTS SIDE



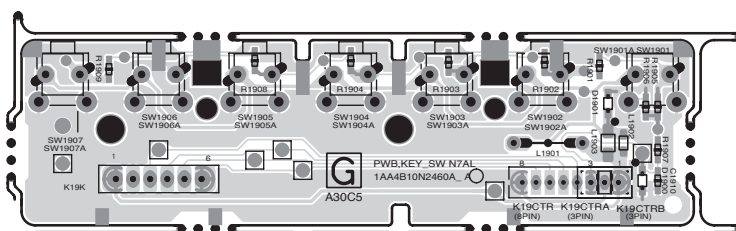
MAIN BOARD SOLDER SIDE



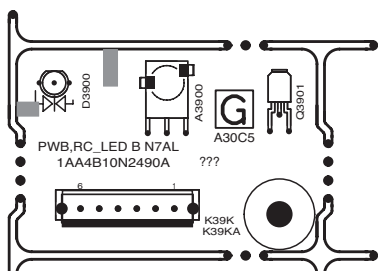
CONTROL BOARD PART SIDE



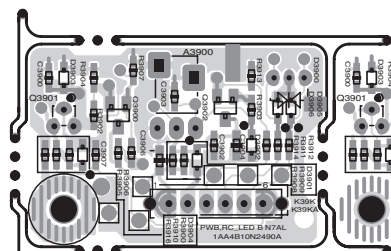
CONTROL BOARD SOLDER SIDE



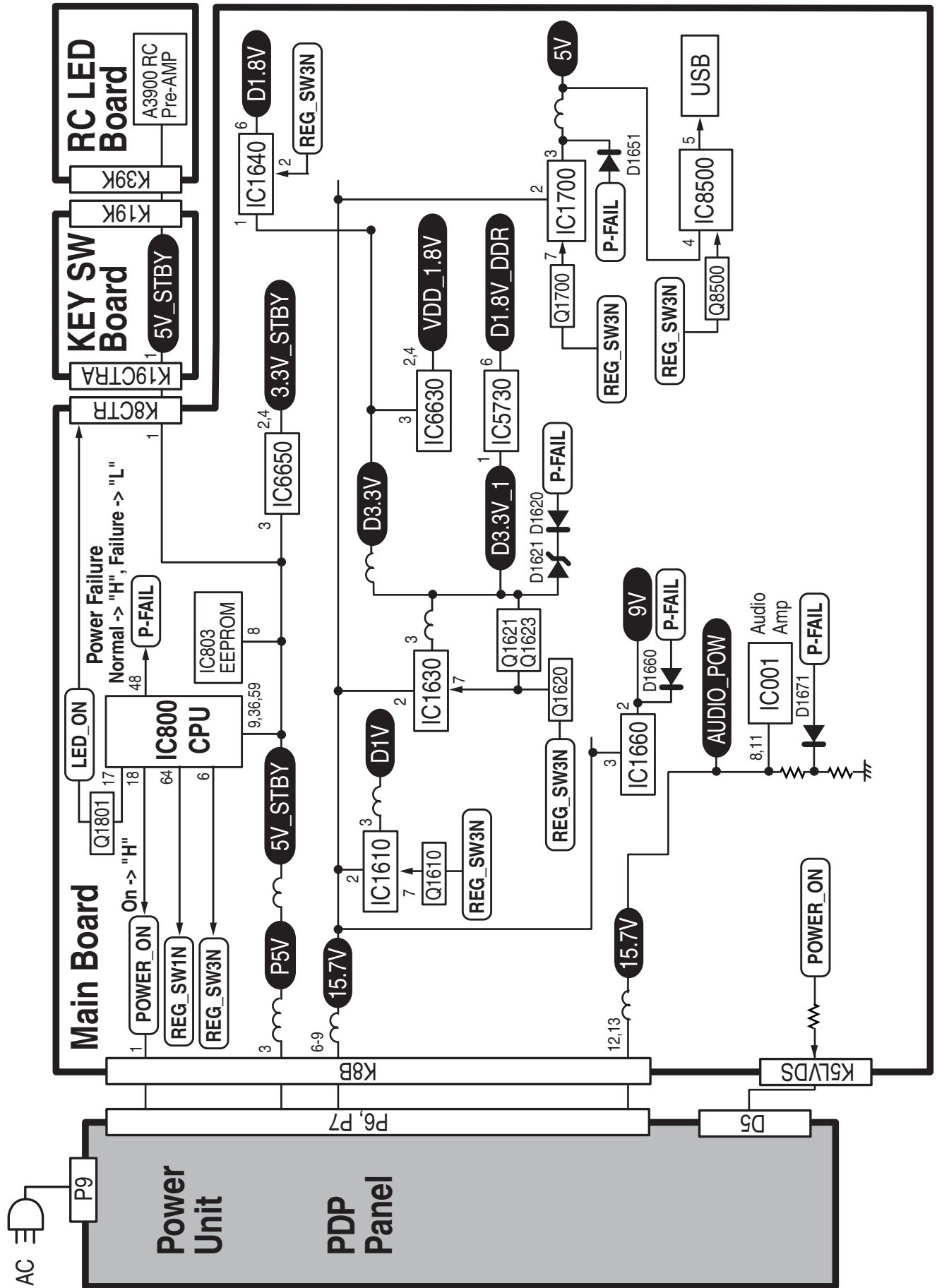
PWB RC_LED PART SIDE



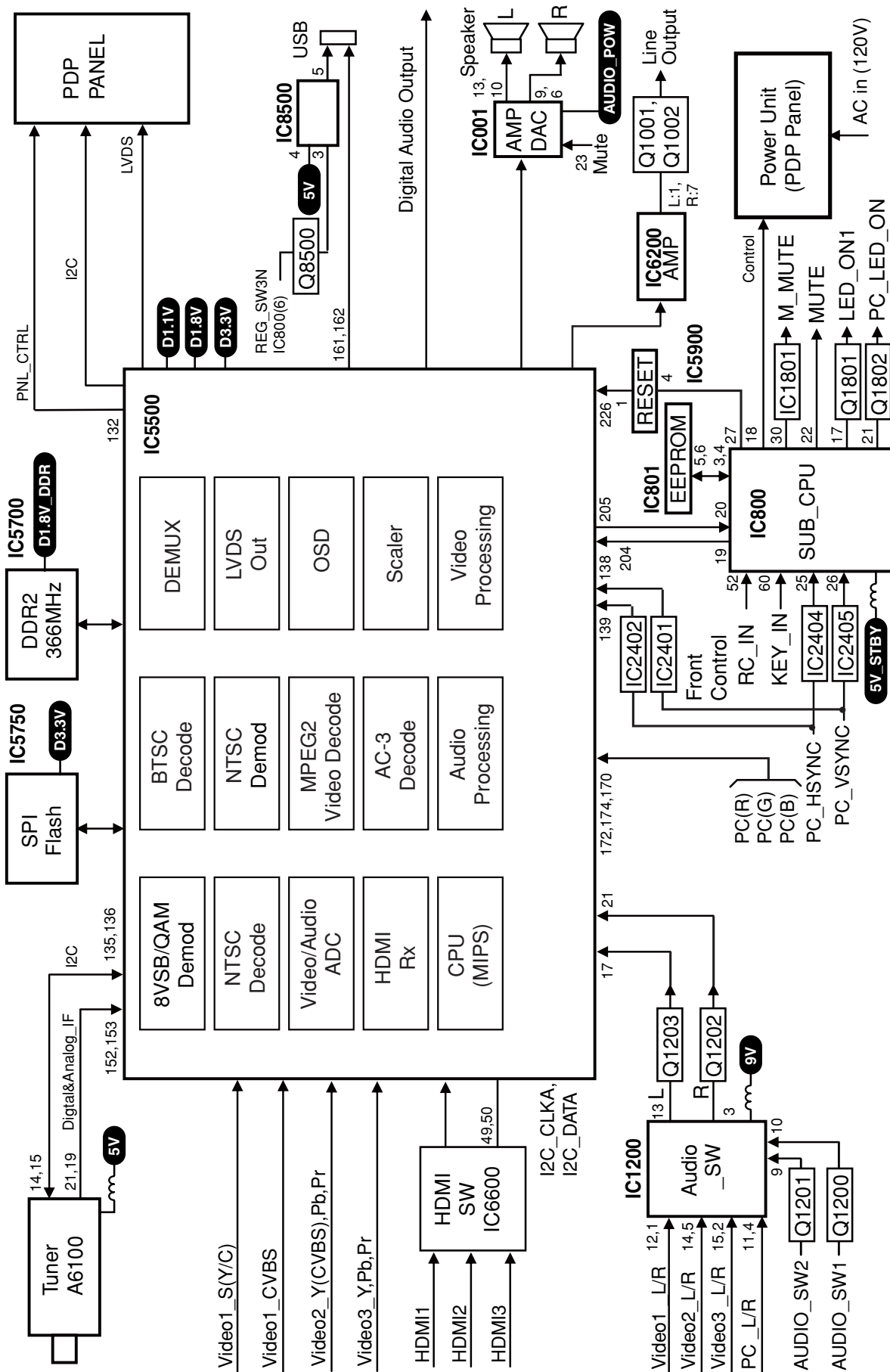
PWB RC_LED SOLDER SIDE



BLOCK DIAGRAM POWER LINES

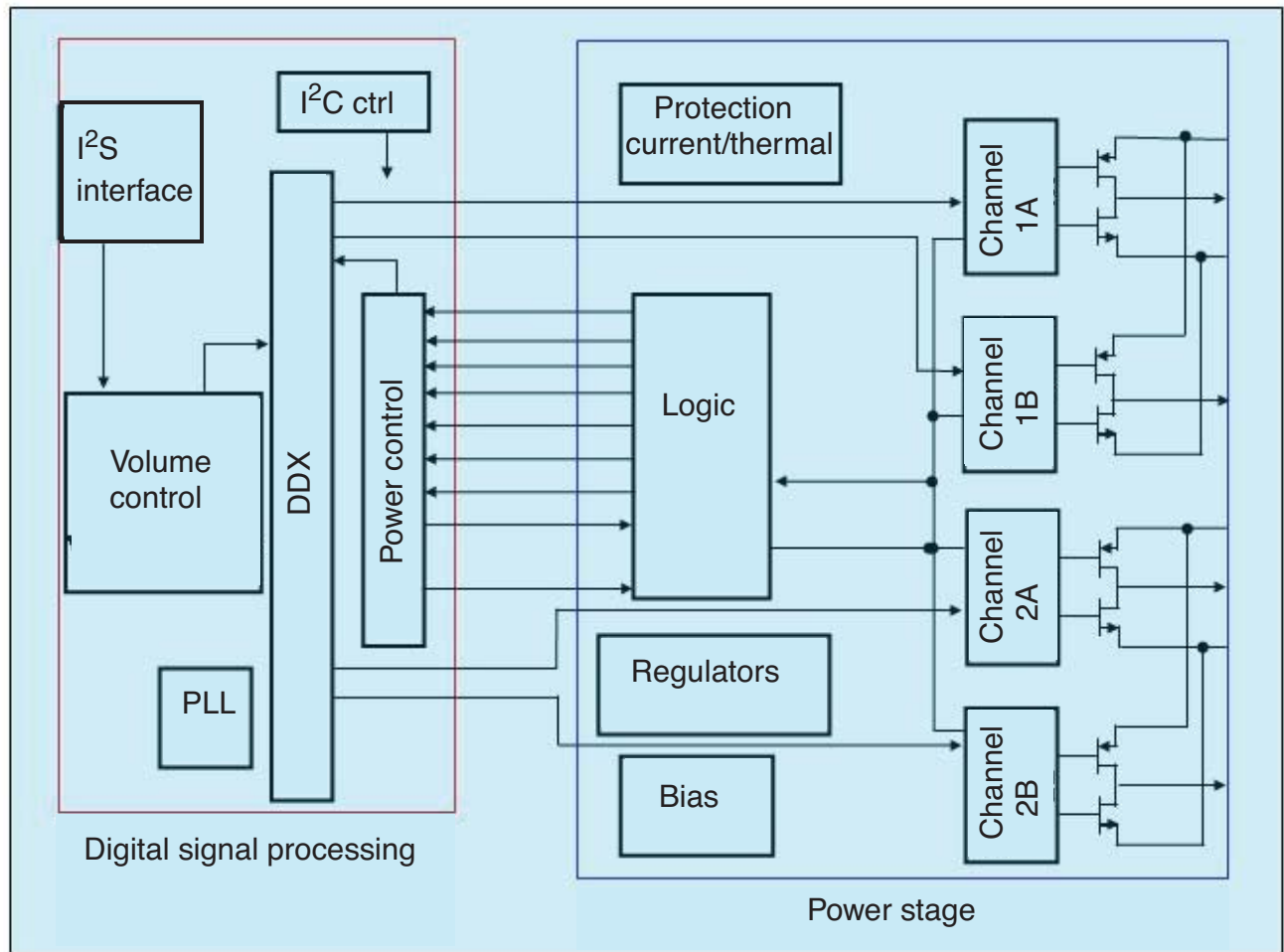


BLOCK DIAGRAM SIGNAL LINES



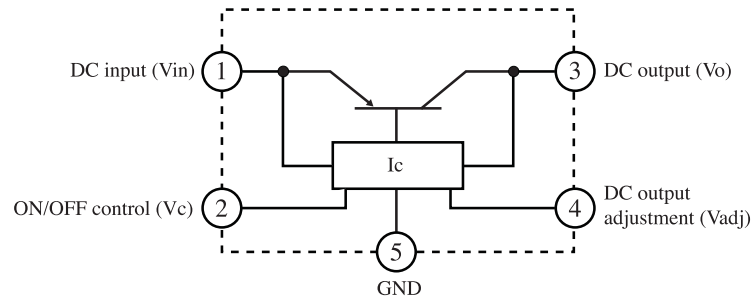
IC BLOCK DIAGRAMS

IC001, Audio AMP

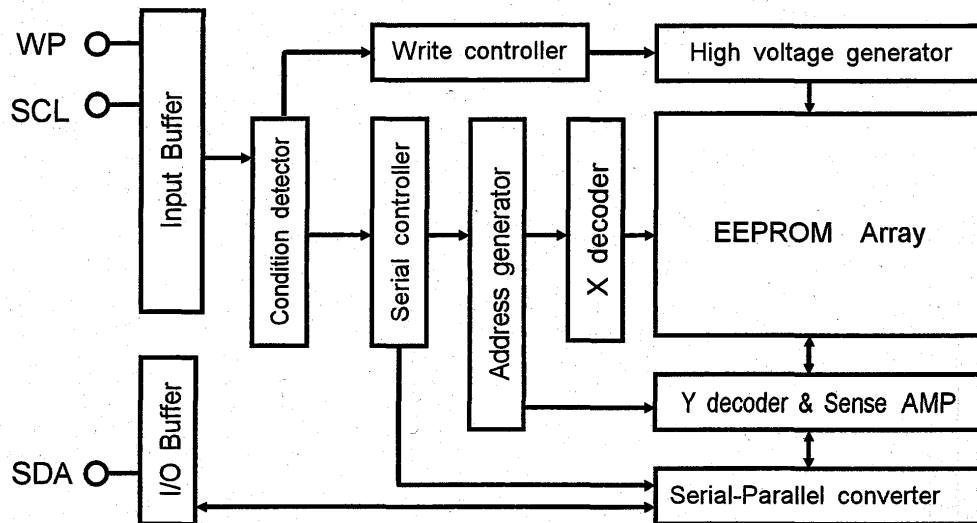


IC BLOCK DIAGRAMS (CONT.)

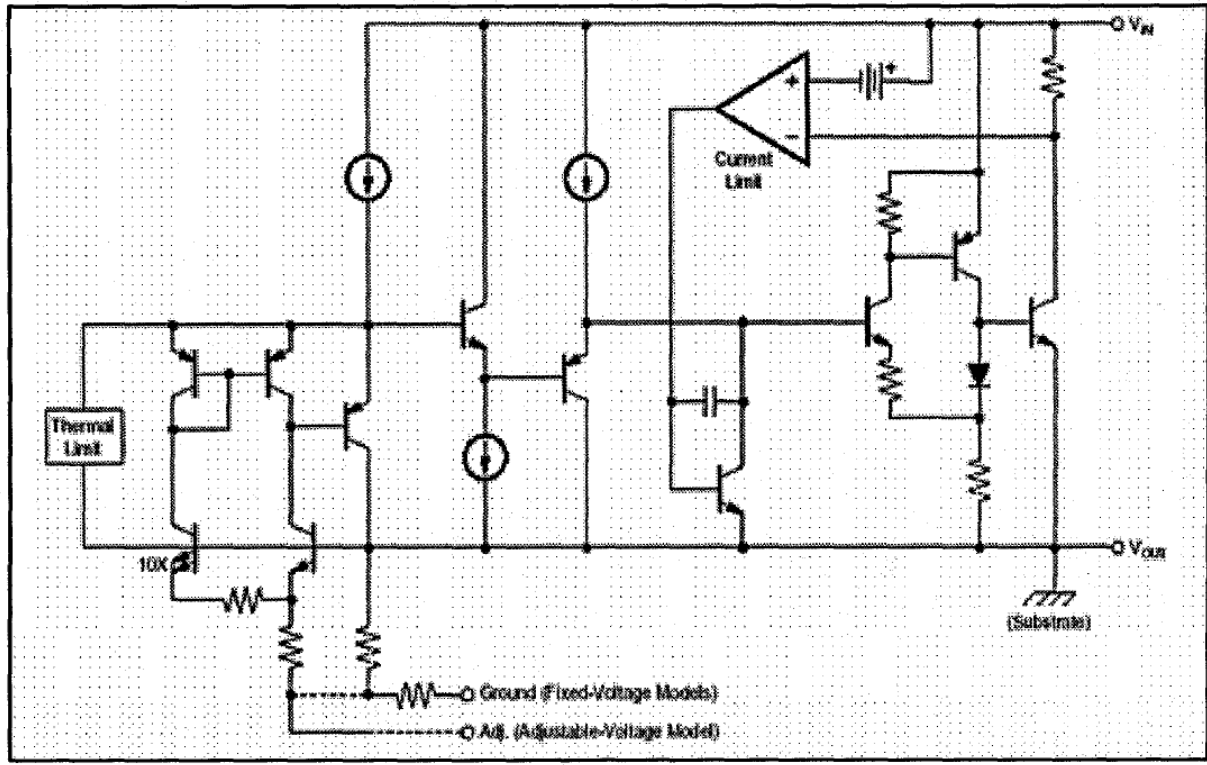
IC1640, IC5730 DC to DC Converter



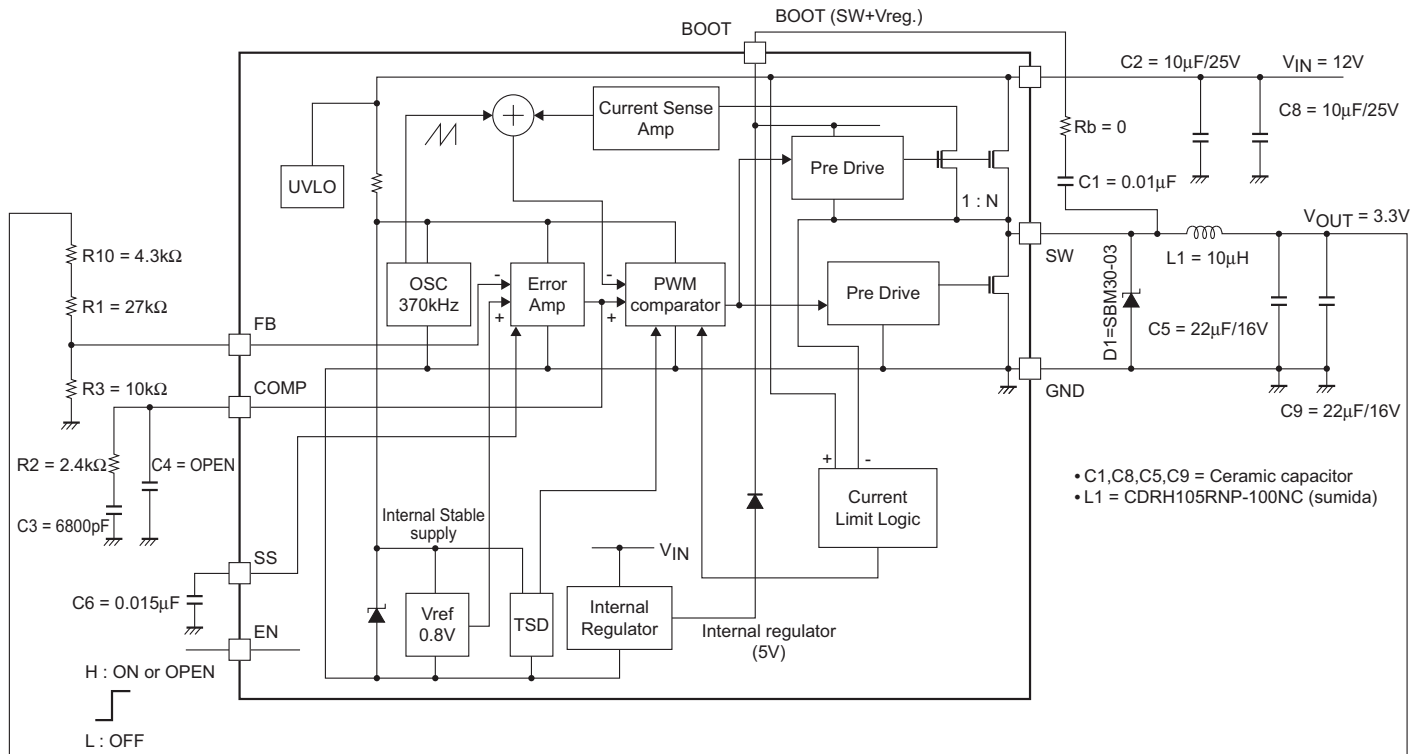
IC801, EEPROM



IC1660, DC to DC Converter

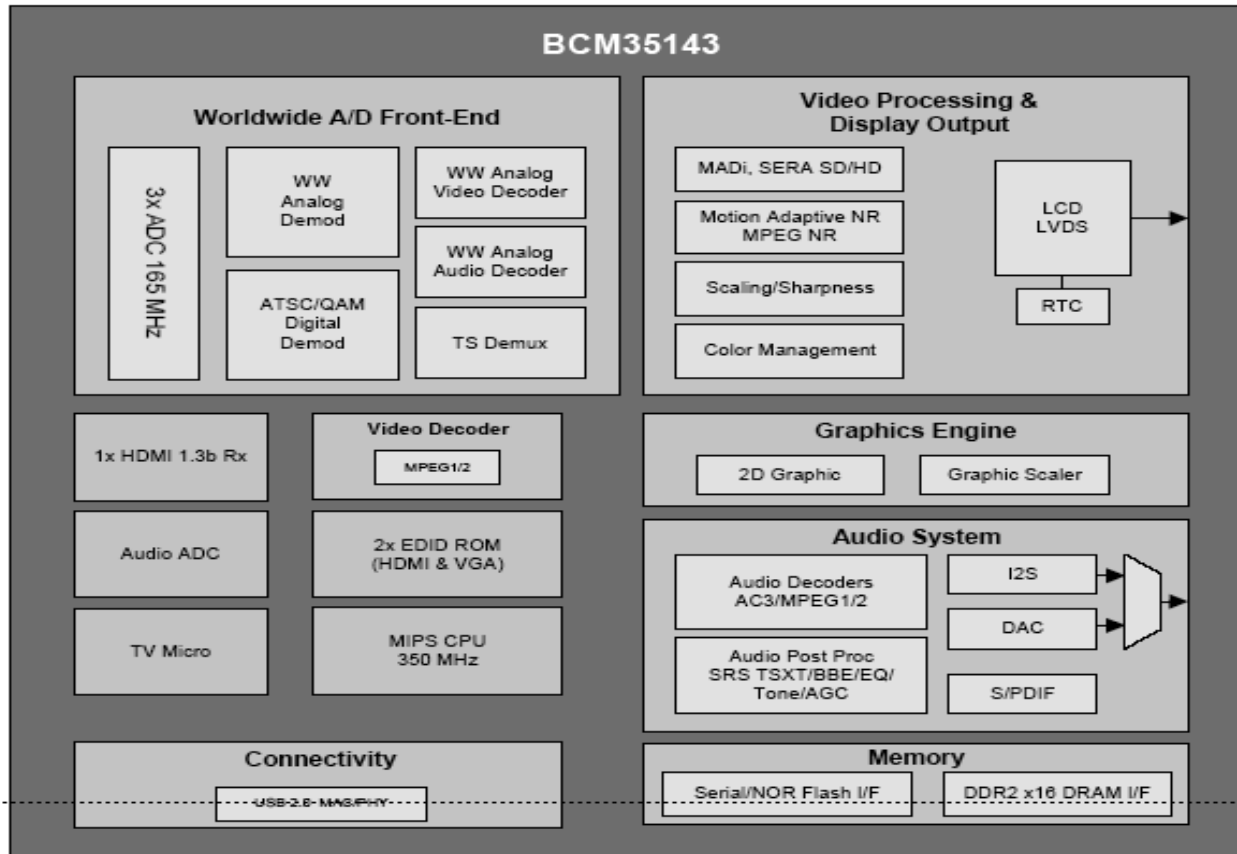


IC1670, DC to DC Converter

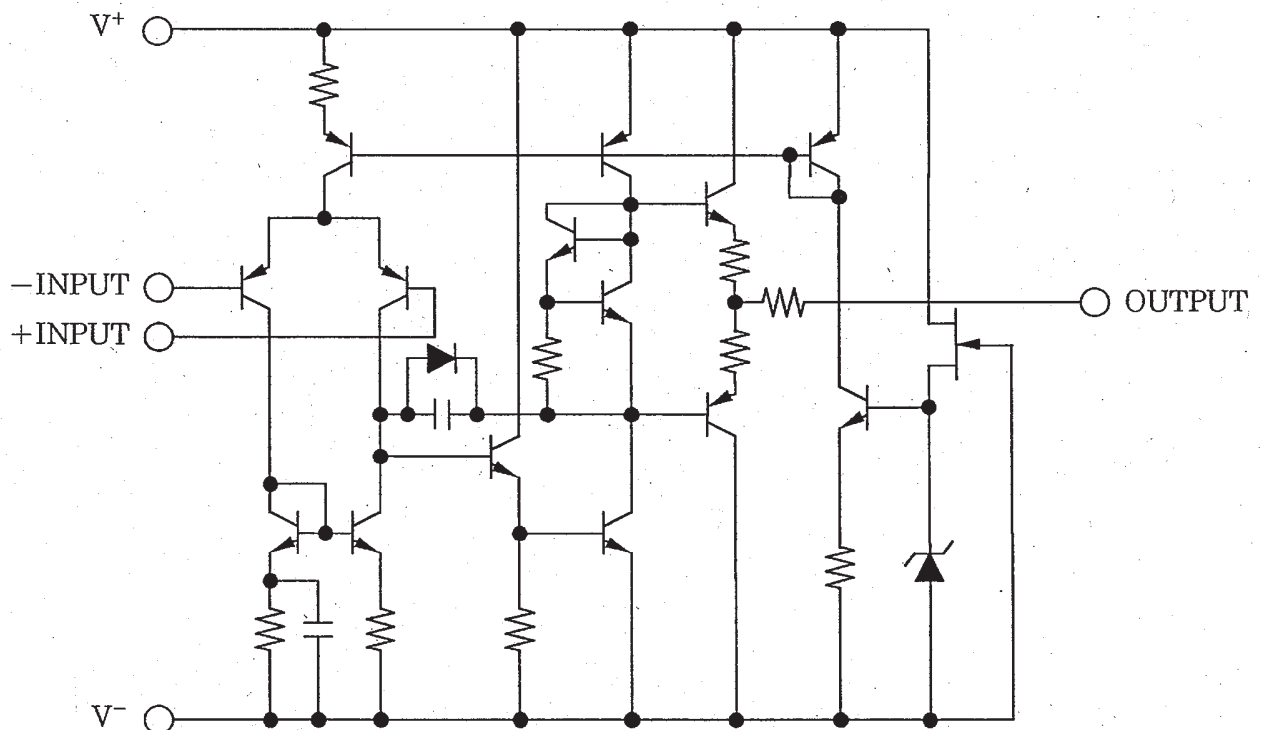


IC BLOCK DIAGRAMS (CONT.)

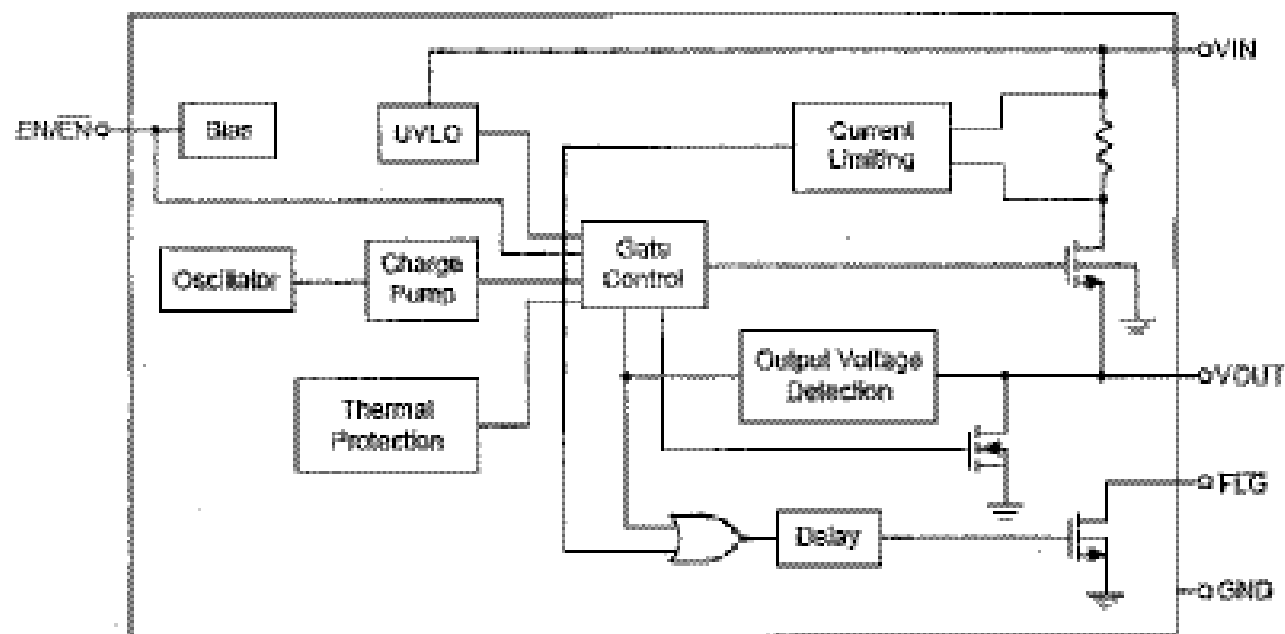
IC5500 Block Diagram



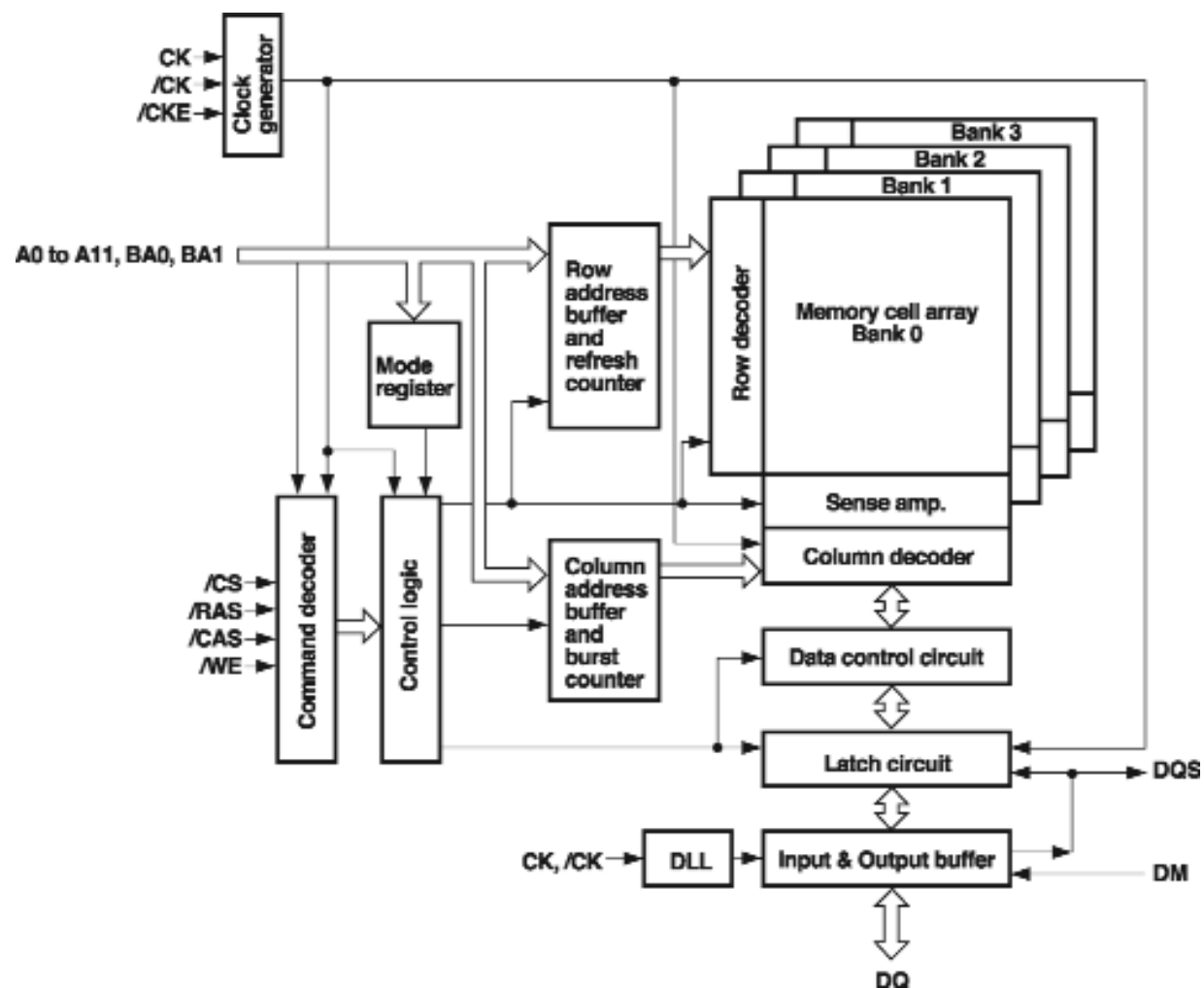
IC6200, Low output Amplifier



IC8500, USB Protection

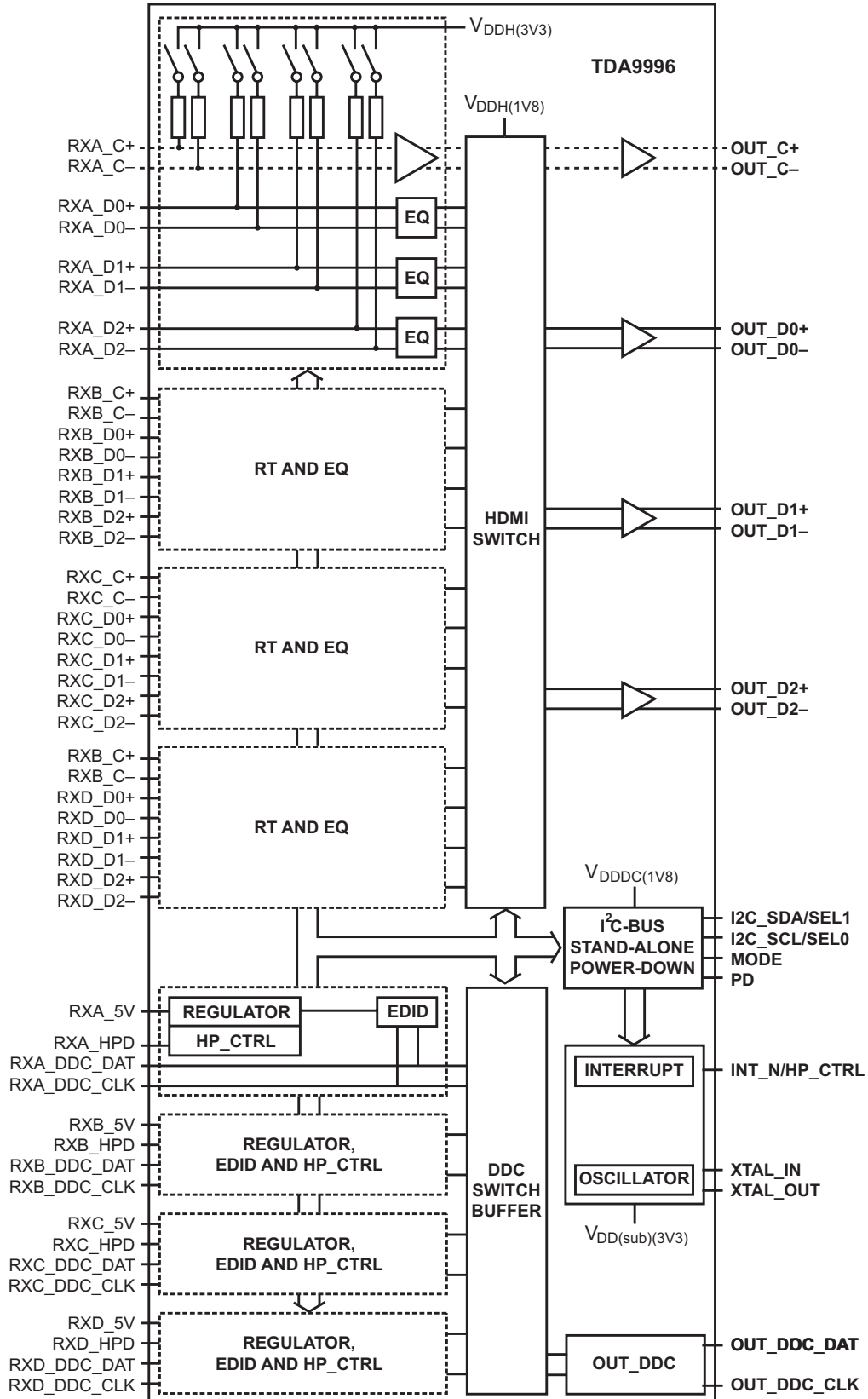


IC5700, DDR: Double Data Rate SDRAM



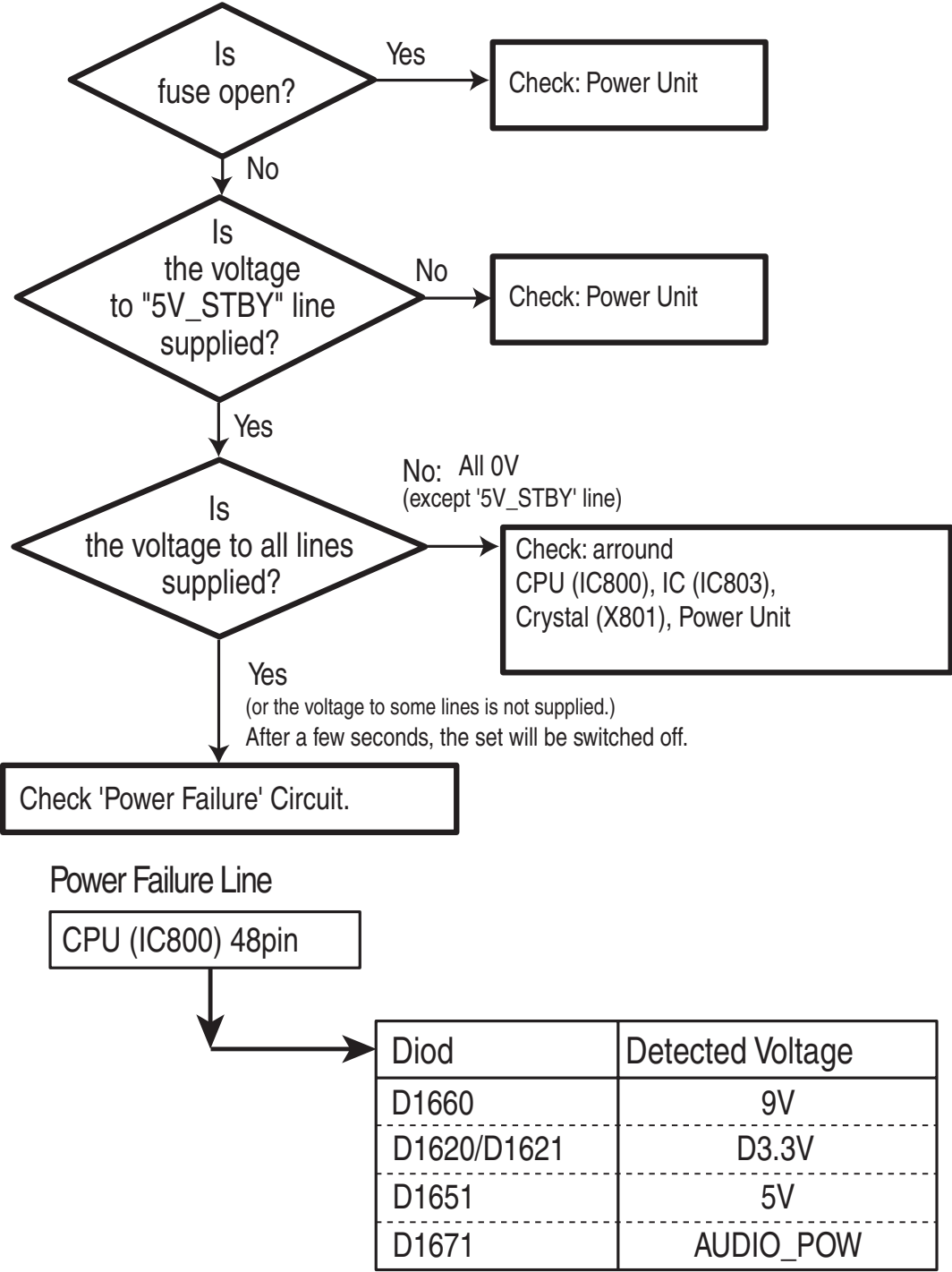
IC BLOCK DIAGRAMS (CONT.)

IC6600, HDMI SELECTOR



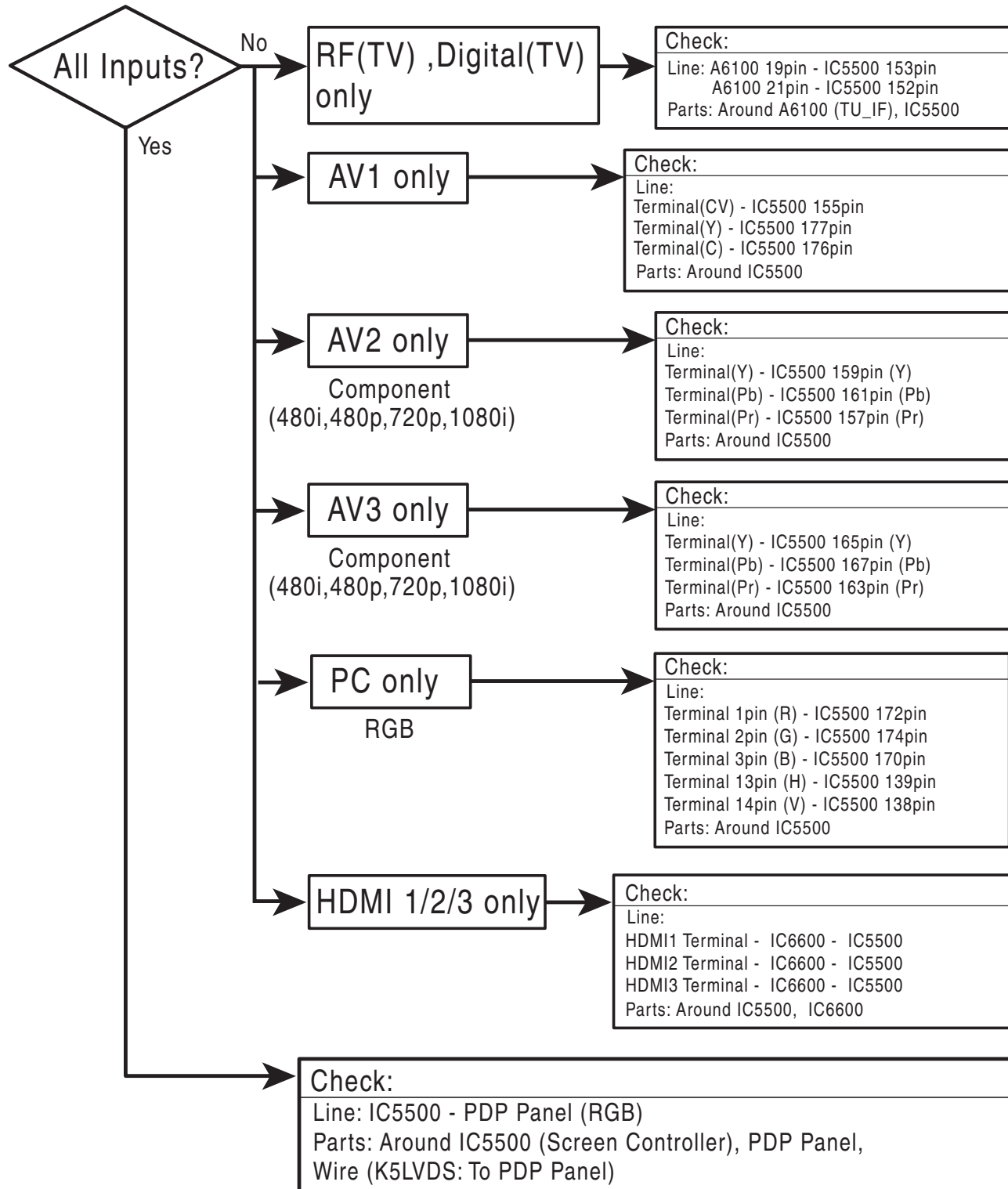
TROUBLESHOOTING FLOW CHARTS

NO POWER



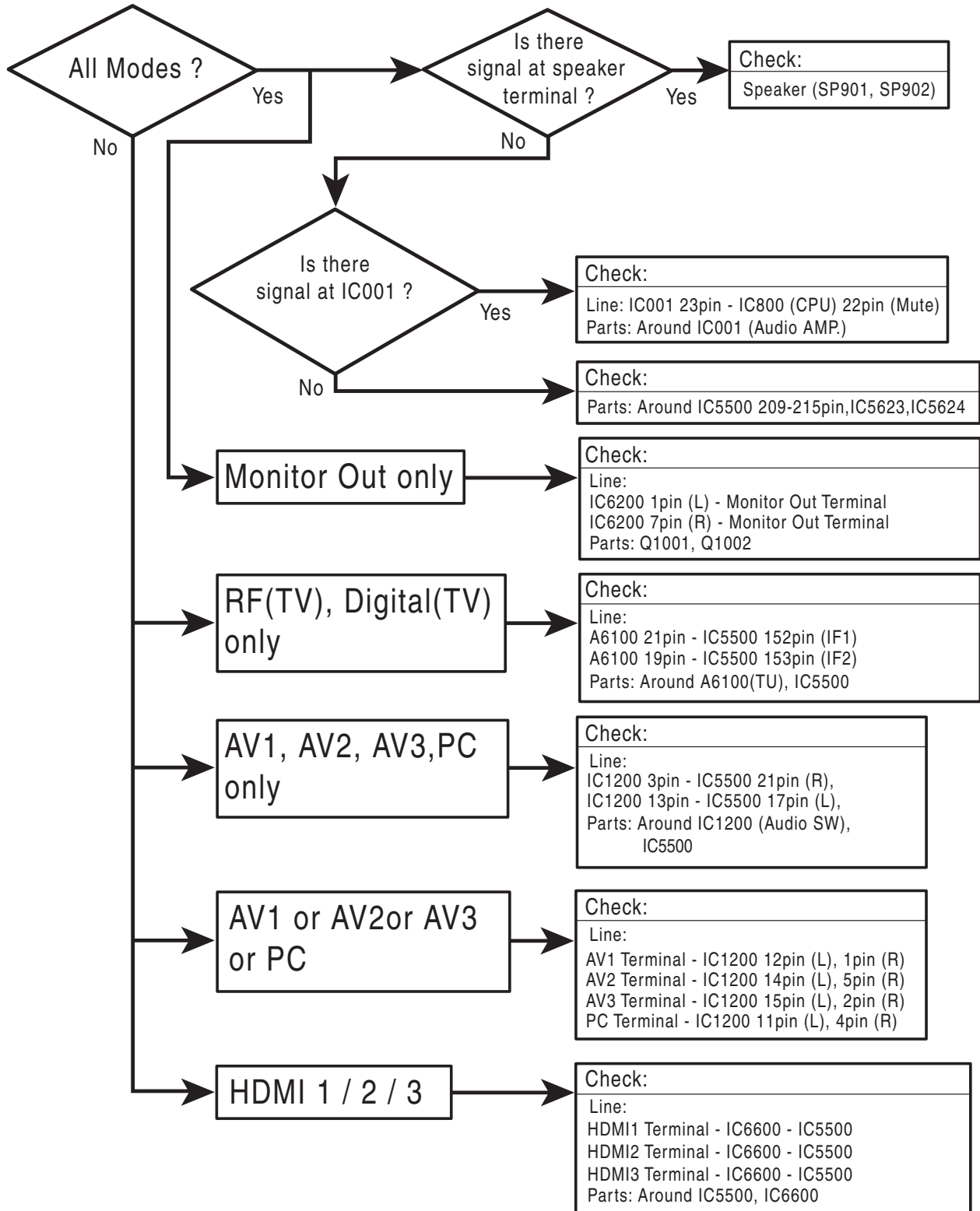
TROUBLESHOOTING FLOW CHARTS (CONT.)

NO VIDEO



TROUBLESHOOTING FLOW CHARTS (CONT.)

NO AUDIO



CONTROL PORT FUNCTIONS

System Control (CPU : IC800)

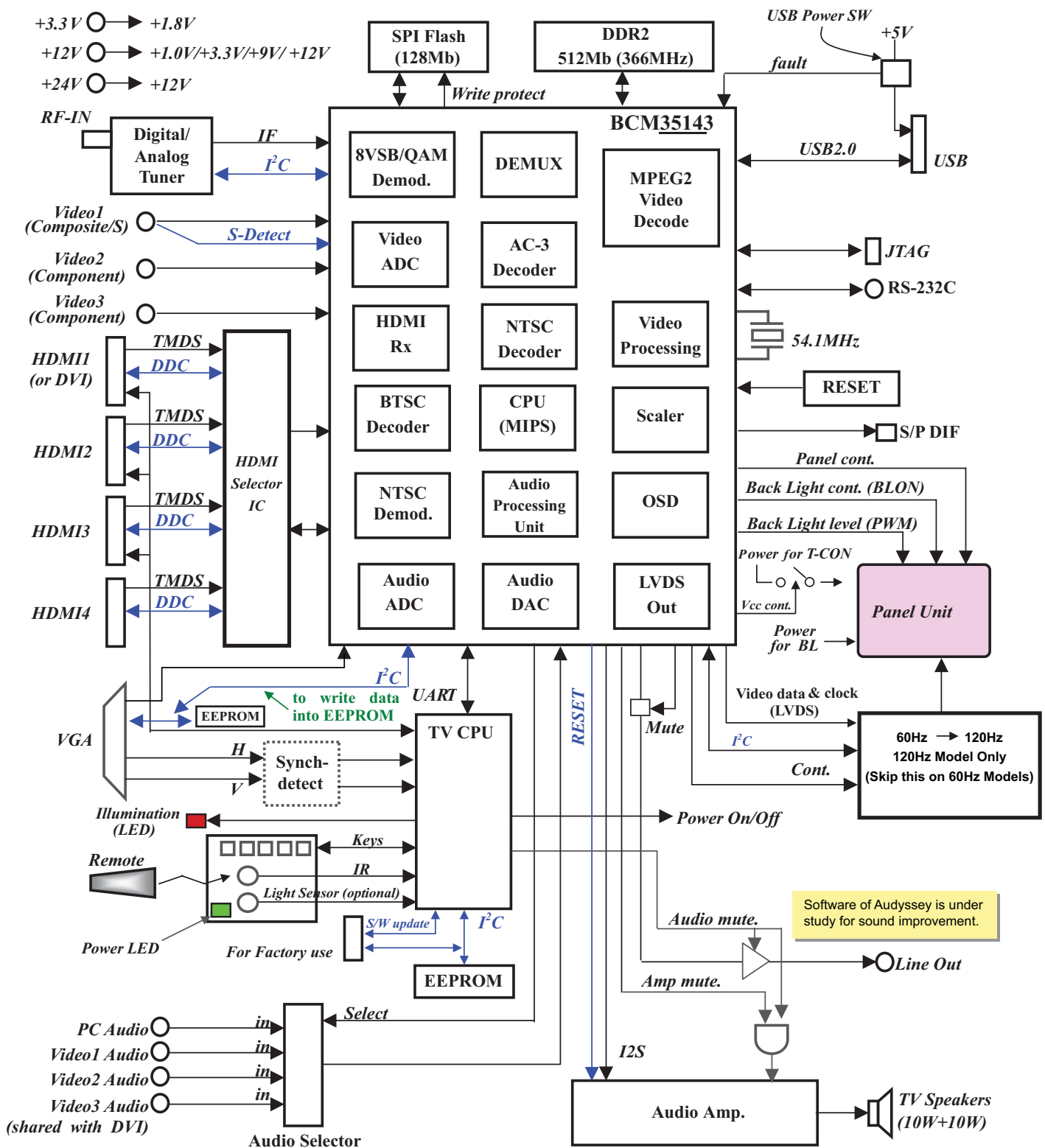
PIN	IC specification	Assignment	I/O	Explanation
1	P12/SCK0	REG SW4	OUT	no use (REG SW4)
2	P13/SO1	REG SW5	OUT	no use (REG SW5)
3	P14/SI1/SB1	IIC-BUS for NV	I/O	Data of IIC Bus Active 'L' for IIC data NV
4	P15/SCK1	IIC-BUS for NV	OUT	Clock of IIC Bus Active 'L' for IIC clock NV
5	P16/T1PWML	REG SW2	OUT	REG SW2 (ON : High OFF : Low)
6	P17/T1PWMH/BUZ	REG SW3	OUT	REG SW3 (ON : Low OFF : High)
7	PWM2	illumination	OUT	no use (illumination LED output)
8	PWM3	no use (PWR_DET)	IN	no use (PWR DET)
9	VDD2	Power IN	IN	VDD2 (5Vdc±10%)
10	VSS2	Vss	IN	GND (0Vdc)
11	P00	Category2	IN	Hard option for category (See other sheet,Zoran/BRCM model)
12	P01	Category1	IN	Hard option for category (See other sheet,Zoran/BRCM model)
13	P02	Category0	IN	Hard option for category (See other sheet,Zoran/BRCM model)
14	P03	Panel Size2	IN	Hard option for panel size (See other sheet,Zoran/BRCM model)
15	P04	Panel Size1	IN	Hard option for panel size (See other sheet,Zoran/BRCM model)
16	P05/CKO	Panel Size0	IN	Hard option for panel size (See other sheet,Zoran/BRCM model)
17	P06/T6O	LED CNTRL	OUT	LED Control output for Power indicator
18	P07/T7O	TV Relay out	OUT	POWER Relay control output ON : High OFF : Low
19	P20/UTX/INT4/T1IN	UART OUT	OUT	Output of UART(Digital Module microcomputer piece confidence)
20	P21/URX/INT4/T1IN	UART IN	IN	Input of UART (Digital Module microcomputer piece confidence)
21	P22/INT4/T1IN	PC Standby LED	OUT	LED control of PC Standby High_NoramL_Low
22	P23/INT4/T1IN	Audio MUTE	OUT	Audio Mute MUTE ON : Low OFF : High
23	P24/INT5/T1IN	Power Fail-2 IN	IN	no use (LVDS Power Fail input for LCD model)
24	P25/INT5/T1IN	AMP_STBY	OUT	no use (AMP Standby control)
25	P26/INT5/T1IN	HS_DET	IN	Detect H-Sync (Detect : High , PC Input)
26	P27/INT5/T1IN	VS_DET	IN	Detect V-Sync (Detect : High , PC Input)
27	PB7	RESET_TV	OUT	RESET_TV => for DM Watch Dog Timer
28	PB6	Boot_SEL1	OUT	no use (Starting DM S/W download-SEL1 for US1T model)
29	PB5	Boot_SEL2	OUT	no use (Starting DM S/W download-SEL2 for US1T model)
30	PB4	M_OUT MUTE	OUT	MUTE ON:Low OFF:High
31	PB3	LINE OFF_DET	OUT	Detect LINE OFF output(Detect: High -> Low)
32	PB2	Reserve	OUT	Reserve (Set Low level)
33	PB1	Reserve	OUT	Reserve (Set Low level)
34	PB0	Solution	IN	High:AMD Low:Zoran
35	VSS3	Vss	IN	GND (0Vdc)
36	VDD3	Power IN	IN	VDD3 (5Vdc±10%)
37	PC7	DBGP2	IN	Terminal for De-Bug 3
38	PC6	DBGP1	I/O	Terminal for De-Bug 2
39	PC5	DBGP0	I/O	Terminal for De-Bug 1
40	PC4	CLK	OUT	Writing on bord (CLK)
41	PC3/AN11	DATA0	I/O	Writing on bord (DATA0)
42	PC2/AN10	ENA/DATA1	I/O	Writing on bord (ENA/DATA1)
43	PC1/AN9	Ack out	OUT	Ack output for factory mode
44	PC0/AN8	STATUS in	IN	Status input for factory mode
45	P86/AN6	sensor in	IN	Light sensor input
46	P85/AN5	Reserve	OUT	(OPEN) (Set Low level)
47	P84/AN4	Panel Alarm	IN	no use (Panel Alarm)
48	P83/AN3	Power Fail-1 IN	IN	TV Power Error(3.6V less)/Others (3.6V over)
49	P70/INT0/T0LCP	LINE OFF	IN	Detect AC Voltage Reduction (Normal : High)
50	P71/INT1/T0HCP	CEC input	IN	CEC input
51	P72/INT2/T0IN	CEC output	OUT	CEC output

PIN	IC specification	Assignment	I/O	Explanation
52	P73/INT3/T0IN	Rcin	IN	Remote control signal input
53	RES	RESET in	IN	CPU Reset input RESET : Low (and for on-board write)
54	XT1	Xin	IN	32.678KHz X'tal input (for clock timer)
55	XT2	Xout	OUT	32.678KHz X'tal output (for clock timer)
56	VSS1	Vss	IN	GND (0Vdc)
57	CF1/AN12	Xti	IN	Main clock input (8MHz ceramic oscillator)
58	CF2/AN13	Xto	OUT	Main clock output (8MHz ceramic oscillator)
59	VDD1	Power IN	IN	VDD1 (5Vdc±10%)
60	P80/AN0	Key in	IN	Panel switch input
61	P81/AN1	Reserve	IN	GND
62	P82/AN2	PANEL READY	IN	Panel Ready (for PDP-LG) OK : High NG : Low only PDP
63	P10/SO0	VS-ON	OUT	VS-ON (for PDP-LG) ON : High OFF : Low only PDP
64	P11/SI0/SB0	REG SW1	OUT	REG SW1 (ON : Low OFF : High)

<Table A>

28pin(SEL1)	29pin(SEL2)	Operation
High	High	USB download
High	Low	Starting Bank1
Low	High	Starting Bank2
Low	Low	Normal

MAIN SHEET BLOCK DIAGRAM & PERIPHERALS



SCHEMATIC NOTES

NOTES ON SCHEMATIC DIAGRAMS

1. All resistance values in ohms K=1,000 M=1,000,000.
2. Resistors specified with resistance value are "1/6DJ."
3. Resistors specified with type of resistor, tolerance and resistance value are "1/4."
4. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in μF (Micro Farad), and the values more than 1 are in pF.
5. All capacitors are 50 WV rating unless otherwise noted.
6. Unless otherwise noted on schematic, voltage reading taken with VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
7. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an * may vary with signal strength.
8. The Symbol  indicates a fusible resistor, which protects the circuit from possible short circuits.
9. Parts enclosed with  are related with X-radiation.
10. Isolation border line.  Cold Side  Hot Side
11. Schematic part location numbers may not always match the schematic symbols.
The schematic symbols and part descriptions are correct and should be used.
The part descriptions will be listed under the location number in the parts list.



ELECTROSTATICALLY SENSITIVE DEVICES

Many solid-state devices (especially Integrated Circuits) are Electrostatically Sensitive, and, therefore, require special handling techniques as described under "Servicing Electrostatically Sensitive Devices," on page two in this service literature.

SERVICE NOTES:

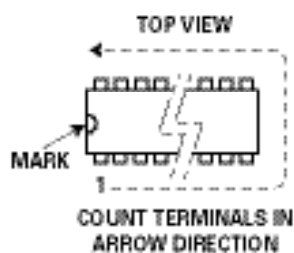
1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.
2. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8) from circuit board.
3. Keep wires away from high voltage and high temperature components.

PRODUCT SAFETY NOTICE

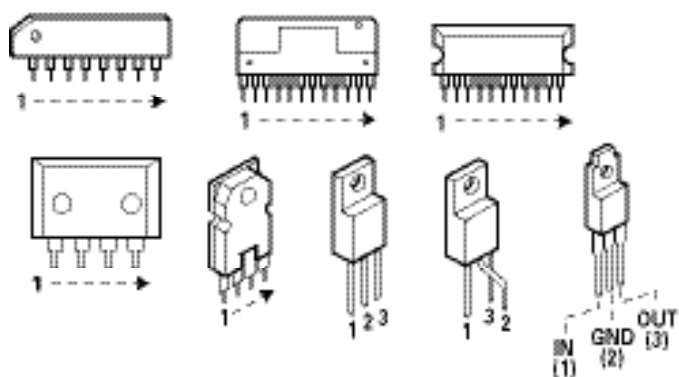
THE COMPONENTS DESIGNATED BY A  ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A  NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

IC, DIODE, AND TRANSISTOR PIN LAYOUTS

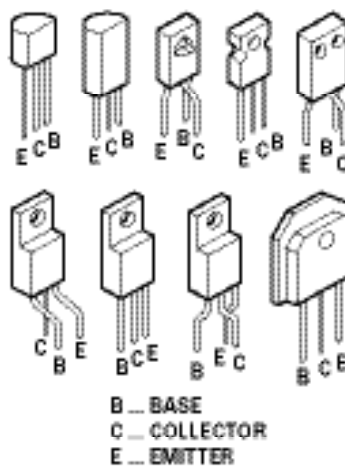
INTEGRATED CIRCUITS



SIDE VIEW

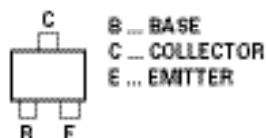


TRANSISTORS

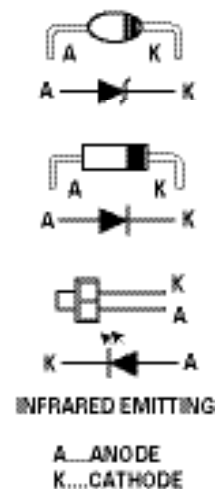


CHIP TRANSISTORS

TOP VIEW

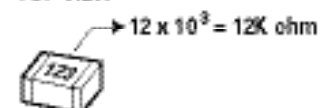


DIODES

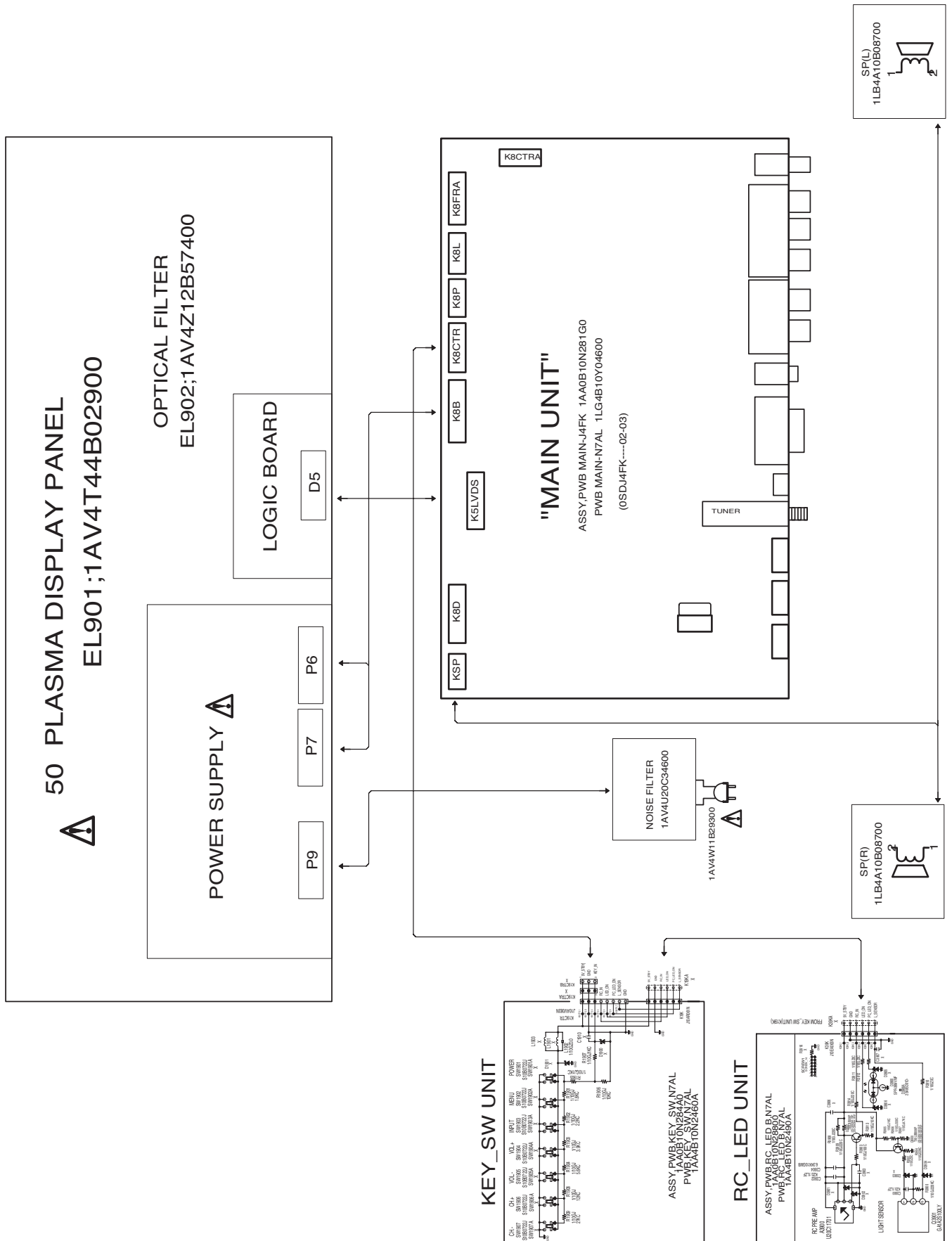


CHIP RESISTORS

TOP VIEW

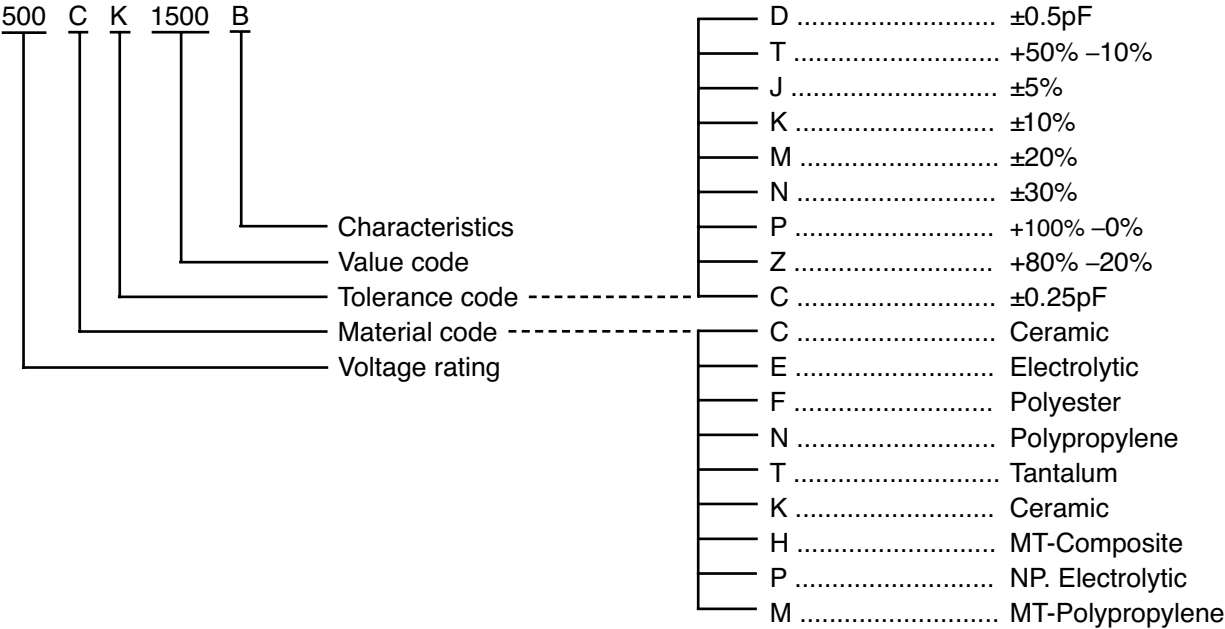


PC BOARD CONNECTIONS AND LOCATIONS

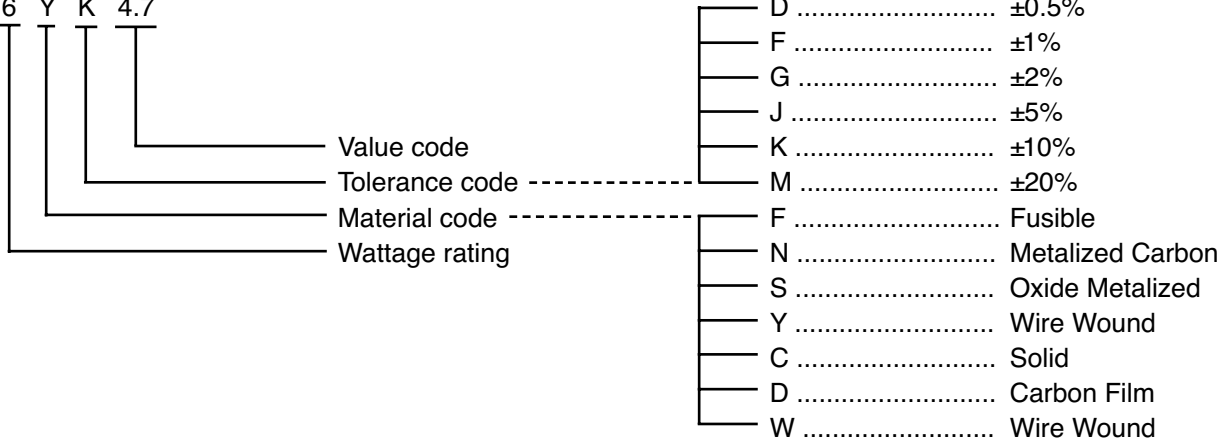


CAPACITOR AND RESISTOR CODE CHART

CAPACITOR (Example)



RESISTOR (Example)



For parts or service contact
Sanyo Manufacturing Corporation
P.O. Box 2000
3333 Sanyo Road
Forrest City, Arkansas 72335-2000

